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A

msS0CS. 1	SH2	MYARNDQVAAADNA	ISPAAEPRRRSE	PSSSSSSSSSSSS	SPAAPVRRP
msS0CS. 3	SH2	MYTHSKFPAAAGMSR	YRSQWGTAGLPEEQS	PEA	
msS0CS. 2	SH2	MYTRCCLFPPSGNG	YRSGWGTAGLPEEQS	PEA	
msCIS	SH2	MYLLCVQGGSCPL	YRSGWGTAGLPEEQS	PEA	
msS0CS. 5	SH2	MYLLCVQGGSCPL	YRSGWGTAGLPEEQS	PEA	
msS0CS. 14	SH2	MDRKGKMRWNNL	YRSGWGTAGLPEEQS	PEA	
msS0CS. 4	SH2	MDRKGKMRWNNL	YRSGWGTAGLPEEQS	PEA	
msS0CS. 6	WD	SGGGPPWRAGG	YRSGWGTAGLPEEQS	PEA	
msS0CS. 15	WD	SGGGPPWRAGG	YRSGWGTAGLPEEQS	PEA	
msS0CS. 5	SH2	AEIPQVVEISIEK	DSGCAIPGTRLAR	RRDSYSRHA	PWGGK
msS0CS. 14	SH2	NFLLEKLNKNTVF	ITLIVKNLIFKMA	ENNSKNVDV	RPKTSR
msS0CS. 5	SH2	VSSRAVGSRS	STQRRLQDDTV	GLCFPMR	YYSKQSKP
msS0CS. 14	SH2	SOERQLSCS	STQRRLQDDTV	GLCFPMR	YYSKQSKP
msS0CS. 6	SH2	TFFDYFDP	BLVSTCDEEDR	RLSTEE	CGVDP
msS0CS. 14	SH2	IKRHHYVPM	STCDEEDRRL	STEE	CGVDP
msS0CS. 5	SH2	STFDSSTFLC	LSDBRDKQRQ	VS	SGDSH
msS0CS. 14	SH2	STFDSSTFLC	LSDBRDKQRQ	VS	SGDSH

FIG. 13 A (i)

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A

mS0CS. 1	SH2	RPCPAVPAPA
mS0CS. 3	SH2
mS0CS. 2	SH2
mCIS	SH2
mS0CS. 5	SH2	KEKSI SLGEAAPQESSPLRENVALDLGLSPSKTFSSRRNUNCA
mS0CS. 14	SH2	GSGRASLPRLSERRRVMAVVMAGARTAPLELSSERSVQKVPRR
mS0CS. 4	WD	
mS0CS. 6	WD	
mS0CS. 15	WD	
mS0CS. 5	SH2	KHSCSTKTQSSLDTEKKFGRTBSGLQRRERRYGVSSMDDMDS
mS0CS. 14	SH2	SHSADRKDGYSWSGKKLSWSXKSESCSESAIGTVENYVEIPLR
mS0CS. 5	SH2	KTHLSELMLEKCPFPAGSDLAQKWHLEIQHTACVSPHS
mS0CS. 14	SH2	PIKNCSGRHSPLPSKRXIHJSELMIDVCCPFPRRCDLAFRWFF
mS0CS. 5	SH2	HIFEATAQVMPYK GPKLRPGMTETISGDDGSAPOXNCB
mS0CS. 14	SH2	CFSHTWGDPCCVITANSASCTGGCHTIGSSMMNIVYNNSFEEDSDMD
mS0CS. 5	SH2	DYIHCCLVPPDLIDITGNRP
mS0CS. 14	SH2	DYVHCCLVPPDLIDITGNRP

FIG. 13 A (ii)

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C		K Y N C F R Φ W D A W S A W S		
CONSENSUS				
mmmsoccs-4		GGYRI V K L		
mmmsoccs-6		GGH C V K L		
mmmsoccs-4		E H V I D C G G I V W S L A F		
mmmsoccs-6		D C G G I V W G V A F		
mmmsoccs-4		K I W D V V Y T G K L L L L M L V D		
mmmsoccs-6		K I W E V Q T G L L L L N L S		
mmmsoccs-4		V W D L K D D G G N M V K V L R		
mmmsoccs-6		I W D L N K H G K Q I Q V L S		
mmmsoccs-4		L W N M D K Y Y T M I R K L E		
mmmsoccs-6		L W S M R S Y T L I R K L E		
mmmsoccs-4		V W D P H N G D L L M E F G H L F P S P T I P A G		
mmmsoccs-6		M W D P Y T G A R L R S L H H T Q L E P T M D D S D		
mmmsoccs-4		F V R I D E D C P V Q V A P		
mmmsoccs-6		I W A . L E L K A P V A F A P		
mmmsoccs-4		F W A		
mmmsoccs-6		F W T		
mmmsoccs-15		G W N		
mmmsoccs-15		A W E		
mmmsoccs-13		G W D I S W P L G R N R L		
mmmsoccs-15		G W D I G R G K L		
mmmsoccs-13		M X D		
mmmsoccs-15		G Y S		

FIG. 13 C

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[illegible]

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CONSENSUS

SSHH2 SSFPQI*
SSHH2 DQYDAP*
SSHH2 EEYKFBV*
SSHH2 RQYPPFQI*
SSHH2 KEVHYKQK VRRVRL E
SSHH2 KEVHYKSK VRL LRI DL
SSHH2 QEKHY* YDPQEEVYLS
WD RYRG*
WD TYRTF*
WD LYQ*
WD LY*
WD YE*
ANNK NTQ*
ANNK KYEEVLRMMNEILEPA
ANNK LYEEFEELLY*
ANNK QLDFFEDLY*
ANNK ?

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FIG 14A

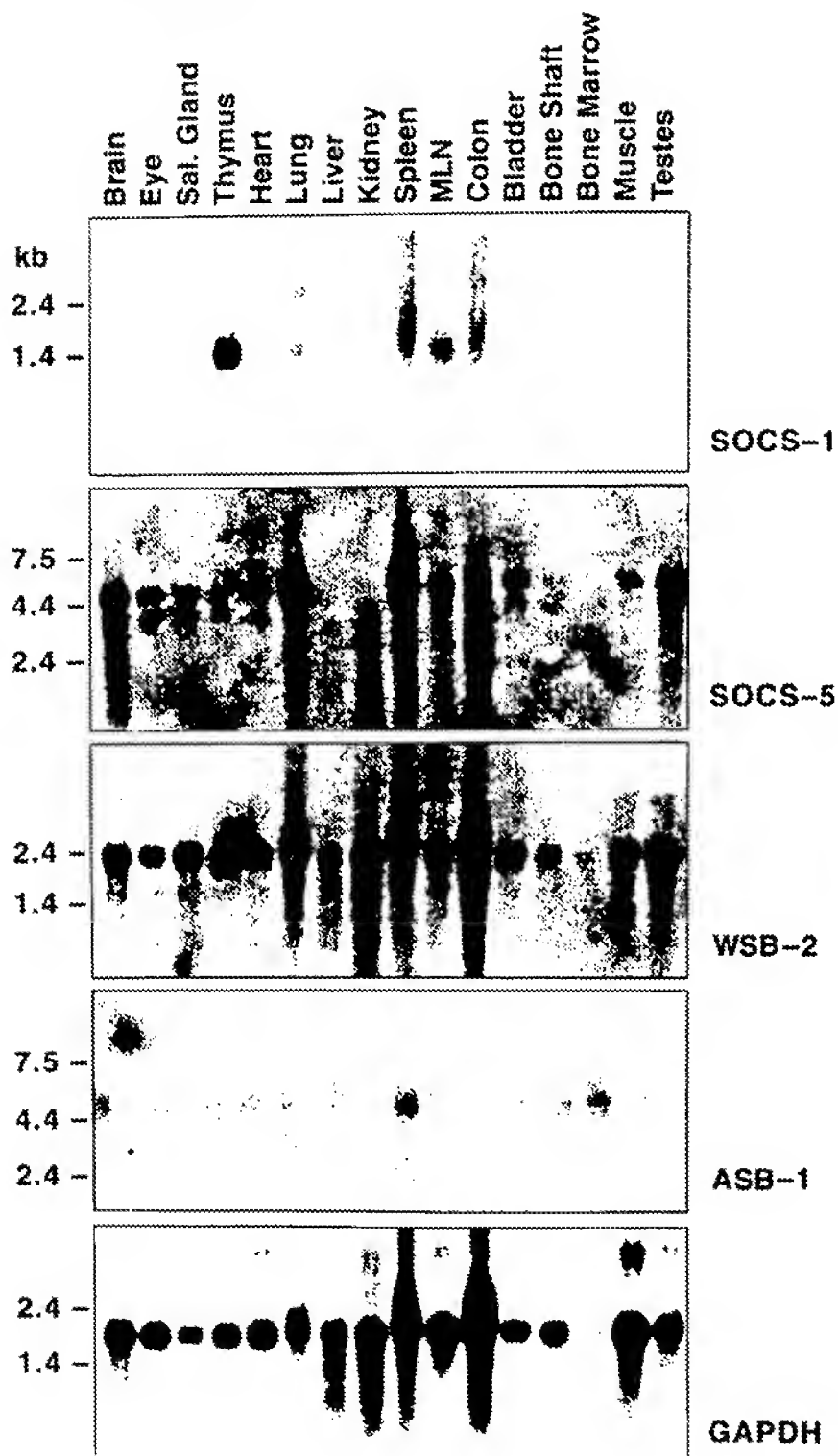
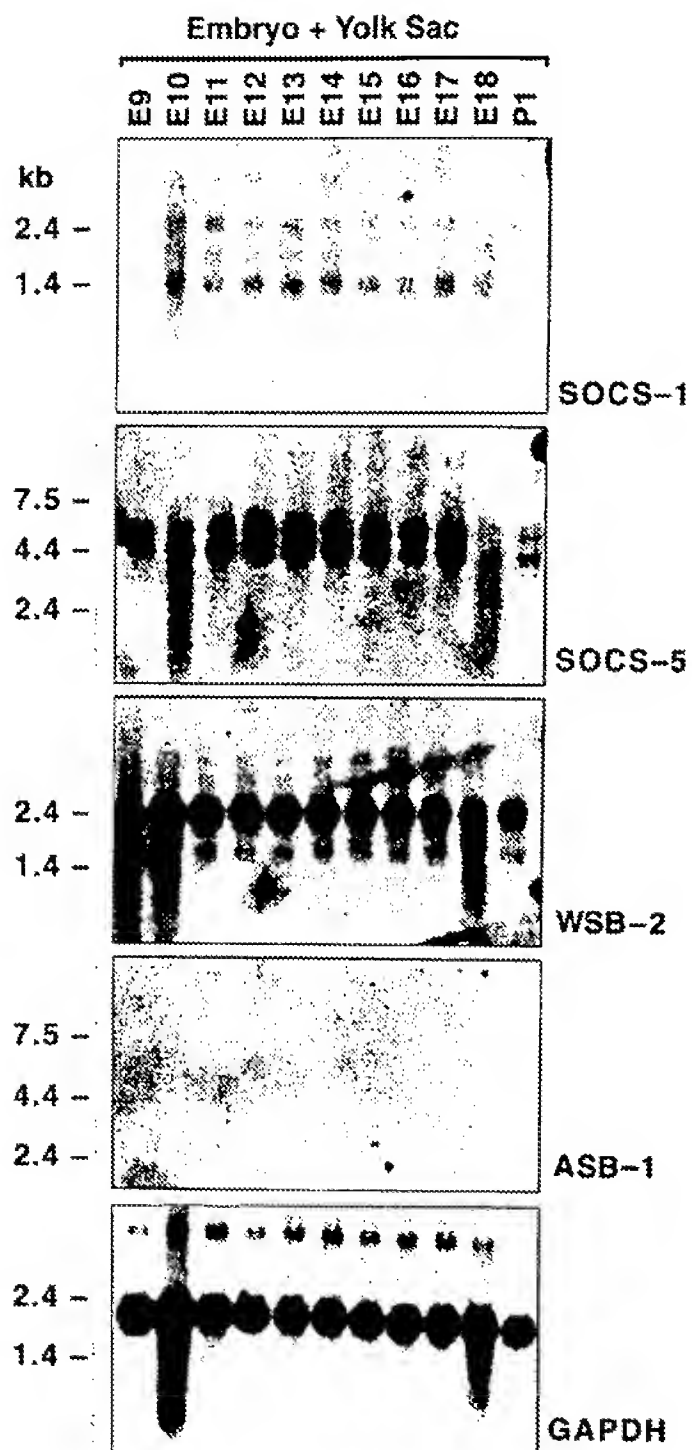


FIG 14B

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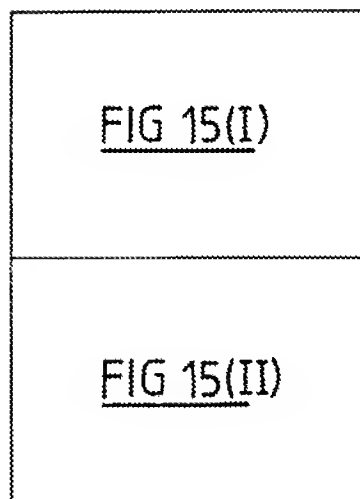


FIG 15

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cgaattccgggggctgtgtgagtcctgtgagtggaaggcgccggctcttbtgtct
gagtgtgacccgggtggctttgttccaggcattccgggtgatttccctcgggcagtcgcg
agaagccgcagcgccggcggctctctctgcagtcctccacacccgggagagcctga
gcccgggtcacgccccctcagcccccgctgagtcctctctctgtgtgcggtccgaatc
gagttcccgggaatcagacgggtgcccccatagatggccagcctttccccgagggttaaccg
agaaagagatcgtgagatcacgtactataggggaaactcttggctccagcagctcccttt
tgacaagaaaatgtgggtgagaaactggacggttgcttttggctcctgctggttccctac
tttgggtgggtcacaaaggatatcgcatagtgaagccttggctcccggtgctccagtgccgta
agaaacttttcttttgcatggttccaaaaaatgttaccaaattcaagctgtctaaaaattggc
aagacaaaacagtaatfggtggtcagaaaaaacaaagcctcctgagcacggttatagactgt
ggagacatagtcggagcttggcttttgggtcttccagttccagttccagaaaaaacagagtcggt
gCGTTAATATAGAAATGGCATCGGTTCCGATTTGGACAGGATCAGCTACTCCTTGCCAC
AGGATTAAACAATGGTCGCATCAAAATCTGGGATGTATATACAGGAAACTCCTCCTT
AATTGGTAGACCACATTGAAATGGTTAGAGATTTAACCTTTTGCTCCAGATGGGAGCT
TACTCCTTGATCAGCTTCAAGAGACAAAACTCTAAGAGTGTGGGACCTGAAAGATGA
TGGAACATCGTGAAAGTATTCGGGGCACATCAGAAATTGGGtGtACAGTTGTGCATTC
TCTCCcGACTGTTcTATGCTGTGTTCAGTgGGCGCCAGTAAAGCAGTTTTCCTTTGGA
ATATGGATAAAAtACACCATGATTAGGAAGctGGAAGGTCATCACCATGATGTGTAGC

FIG 15(I)

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TTGTGACTTTTCTCCTGATGGAGCAATTGCTAGCTACTGCATCCTATGACACTCGTG
TATGCTGGGATCCACACAATGGAGACCTTCTGATGGAGTTTGGGCACCTGTTTCCCT
CGCCCACTCCAATAATTGCTGGAGGAGCAAAATGACCCGATGGGTGAGAGCTGTGCTTT
CAGTCATGATGGACTGCATGTTGCCAGCCCTTGCTGATGATAAAATGGTGAGGTTCTGG
AGAAATCGATGAGGATTGTCCGGTACAAAGTTGCACCTTTGAGCAATGGTCTTTGCTGTG
CCTTTTCTACTGATGGCAGTGTTTTTAGCTGCTGGGACACACATGATGGAAGTGTGTAATTT
TTGGGCCACTCCAAGGCAAGTCCCTAGCCCTTCAACATATATGTCGCATGTCAATCCGA
AGAGTGATGTCCACCCAAAGAGTCCAAAAACTGCCTGTTCCTTCCAAAATATTGGCGT
TTCTCTCCTACCGCGTTAGactgaagactgcctttcctggtaggcctgccagacaga
gcgccctttacaagacacacacctcaagctttacctcggtgccgaatt

FIG 15(II)

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MASFPPRVNEKEIVRSRTIGELLAPAAPFDKCKCGENWTVAFAPDGSYFAWSQGYRIV
KLVPWSQCRKNFLLHGSKNVTNSSCLKLARQNSNGGQKNKPPEHVIDCGDIVWSLAFG
SSVPEKQSRCVNIWHRFRFGQDQLLATGLNNGRIKIWDVYTGKLLNLDHIEMVR
DLTFAPDGSLLLVASARDKTLRVWDLKDDGNMVKVLRAHQNWVYSCAFSPDCSMLCSV
GASKAVFLWNMDKYTMIRKLEGHHDVVACDFSPDGALLATASYDTRVYVWDPHNGDL
LMEFGHLFPSPPTPIFAGGANDRWVRVAVSFSDGLHVASLADDKMVRFWRIDEDCEPVQV
APLSNGLCCAFSTDGSVLAAGTHDGSVYFWATPRQVPSLQHICRMSIRRVVMSTQEVQK
LPVPSKILAFLSYRG*

FIG 16

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SOCS4

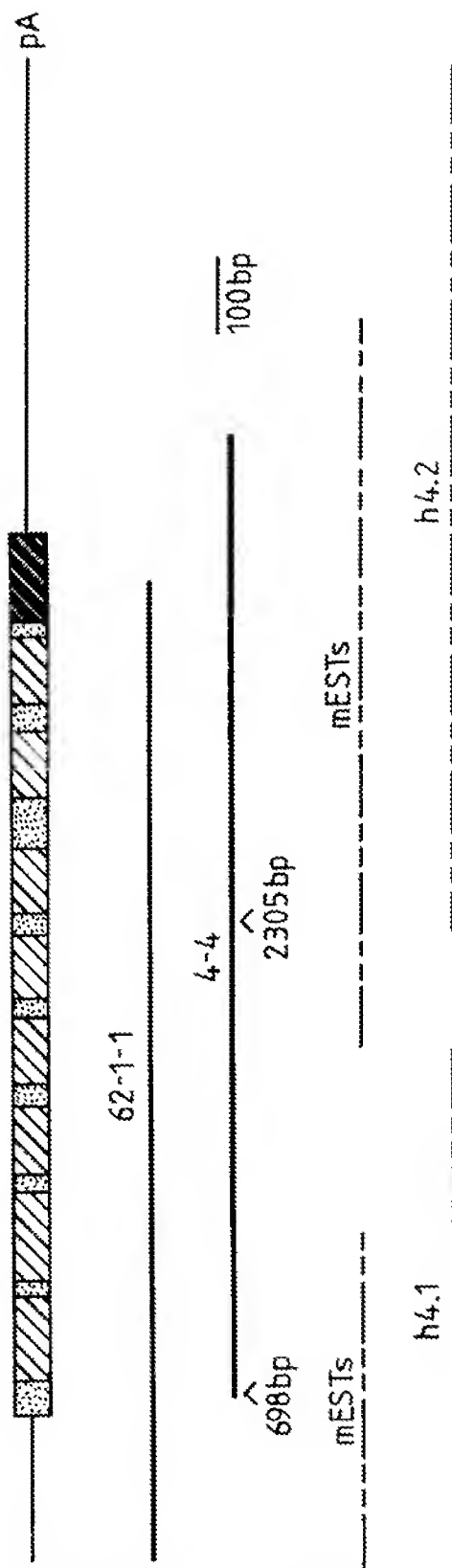


FIG 17

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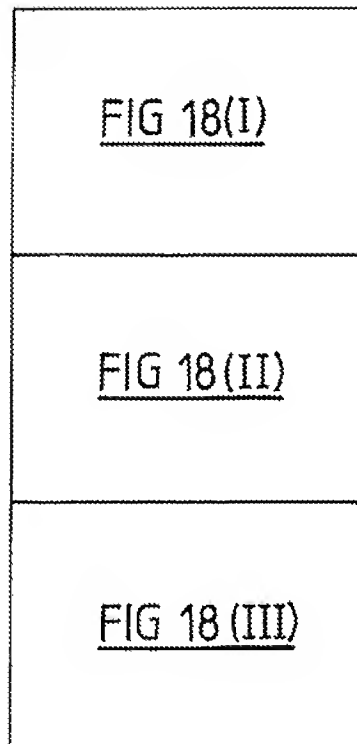


FIG 18

I. F. U.

CTGTCCTCCTCCGACGCGAGGCTGGGTACAGGCTCTATTGTCGTGTTGACTCCG
TACTTTGGTCTGAGCCCTTCGGGAGCTTTCCTCCGAGGCAGTTAGCAGAAAGCCGACGCGA
CCGCCCCCGCCCGTCTCCTCTGTCTCCCTGGGCCCGGAGACAAACTTGGCGTCAACGCC
TCAGCGGTGCGCCACTCTCTTCTCTGTCTTGGGTCCGCATCGTATTCCCCGGAATCAGA
CGGTGCCCCCATAGATGCCCAGCTTTCCTCCCGAGGTCACAGAGAAAGAGATCGTGAGA
TCACGTACTATAGGTGAACCTTTAGCTCCTGTCAGCTCCTTTTGACACAGAAATGTGGTC
GTGAAAAATTGGACTGTTGCTTTGCTCCAGATGGTTCATACTTTGCTTGGTCACAAGG
ACATCGCACAGTAAAGCTTGTTCCTGGTCCAGTGCCCTTCAGAACTTTCTCTTTGCCAT
GGCACCAAGAAATGTTACCAATTCAAGCAGTTTAAAGATTGCCAAGACAAATAAGTGATG
GTGGTCAGAAAAATAAGCCCTCGTGACATATTATAGACTGTGGAGATATAGTCTGGAGT
CTTGGCTTTTGGGTCAATCAGTTCAGAAAAACAGAGTCGCTGTGTAATAATAGAAATGGC
ATCGCTTCAGATTTGGACAAAGATCAGCTACTTCTTGTCTACAGGTTGAACAAATGGCG
TATCAAAATATGGGATGTATATMCAGGAAACTCCTCCTTAAGTGGTAGATCATCTG
AAGTGGTCACAGATTTAACTTTTGGCTCCAG

FIG 18(I)

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h4.2

CTCTGTATGTCTGAATGAAGCTATAACATTTGCCCTTTTATTCAGGTTTTCCTTTGG
AATATGCATAAATACACCATGATACGGAAACTAGAAGGACATCACCATGATGTGGTAG
CTTGTGACTTTTCCTCTGATGGAGCATTACTGGCTACTGCATCTTATGATACTCGAGT
ATATATCTGGGATCCACATAATGGAGACATTTCTGATGGAATTTGGGCACCTGTTTTCCC
CCACCTACTCCAATATTTGCTGGAGGAGCAAAATGACCCGGTGCTACGATCTGTATCTT
TTAGCCATGATGACCTGCATGTGTGCAAGCCTTGCTGATGATAAAATGGTGAGGTTCTG
GAGAAATTGATGAGGATTATCCAGTGCAGTTGCACCTTTTGAGCAATGGTCTTTTGCTGT
GCCTTCTACTGATGGCAGTGTTTTAGCTGCTGGACACATGACGGAAGTGTGTATT
TTTGGGCCACTCCACGGCAGTCCCCTAGCCTGCAACATTTATGTGCGCATGTCAATCCG
AAGAGTGATGCCCAACCAAGATTCAGGAGCTGCCGATTCCTTCCAAGCTTTTGGAG
TTTCTCTCGTATCGTATTTAGAAAGATTCTGCTTCCCTAGTAGTAGGACTGACAGAA
TACACTTAACACAAACCTCAAGCTTTACTGACTTCAATTATCTGTTTTTAAAGACGTA
GAAGATTTTAAATTTGATATAGTTCTTGTACTGCAATTTTGATCAGTTGAGCTTTTAA
AATATTATTATAGACAAATAGAAAGTATTTCTGAACATATCAAAATATAAAATTTTAA
AGATCTAACTGTGAAAAACATACATACCTGTACATATTTAGATATAAAGCTGCTATATGT
TGAATGGACCCCTTTTGGCTTTTCTGATTTTTAGTCTGACATGTATATATGCTTCAGT
AGAGCCACAATATGTATCTTTTGGTGTAAAGTGCAAGGAAATTTTAAATTTCTGGGACAC

FIG 18(II)

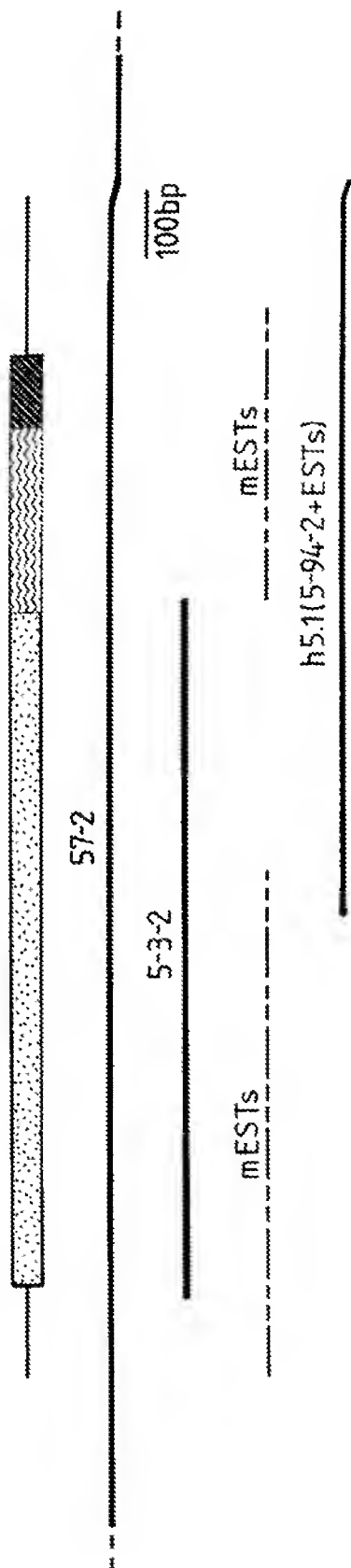
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TGAGTTAGATGGTAAATACTGACTTACGAAAGTTGAATTGGGTGAGCGGGCAAATCA
CCTGAGGTCAGCAGTTTGAGACTAGCCCTGGCAAAACATGATGAACCCGTGTCCTACTA
AAAATACAAAAA

FIG 18(III)

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5-3-2

1005

TESTS

ST 53

h5.1(5-94-2+ESTs)

FIG 19

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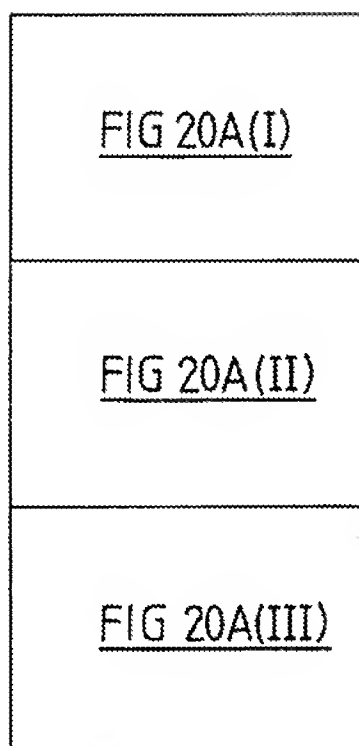


FIG 20A

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eggacagccgggtccgtccggaggaagcaggctgcgccggccggccggcaggagc
ggaggacgggagmgcggcggtcgcgctcgccctgtcgctgactgcgctgccccggcc
catccttgccctggccgcaggtgccctggatgaggccgcgcgctgtccggccgctga
gtgtcccccgggtcgcccggtcgccctgcccctcaagcggccgctctccttgccccgggtc
cccgttttccccggcgagtcctcctccggtggcgccctccgcacctcggcgccaggcg
gcacggccctcgggccgggatggatccgcgggaagaggaacaagccggcggttga
gccccgtgcgcaggtgcgcgcgcgtagtgggagcttactgcagtaggctctcgctc
ttctaataatggataaagtcgggaaatgtggaacaaacttaaaaatacagatgccagaa
tctcttcagccacgaggaggaagccgtaatgagaaacgtggagatgaaccccaacagat
gtccgctgtcaaaagagaaaaagcattcagctctgggagagcgactccccagcaagagag
cagtcctcttaagagaaaaatgttgcctttacagctgggactgagcccttccaagaccttt
tccaggcggaaccaaaactgtgcccgcagagatcccctcaagtgttgaaatcagcatcg
agaaagacagtcactcgggtgccaccgccaggaacgaggttgcacggagagactcccta
ctcggcgacgcgccgtgggaggaagaaacacattcctgttccacaaagacccag
agttcatattggataccgagaaaaaagt'ttggtagaactcgaagccgcttcagagccgag
agcggcgctatggagtcagctccatgcaggacatggacagcgt'ttctagccggcgggt
cgggagccgctccctgaggcagaggtccaggaacacgggtgggt'ttctgtgt'ttccccatg
agaacttacagcaagcagtcaaaagccactct'ttcccaataaaaagaaaaatacatcttt

FIG 20A(I)

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CTGAATTAAATGCTGGAGAAATGCCCTTTTCCTGCTGGCTCGGATTTAGCACAAAAGTG
GCATTGATTAAACAGCATACCGCCCCCTGTGAGCCACACTCAACATTTTGTATACA
TTTGATCCATCACTGGTGTCTACAGAAGATGAAGAAGATAGGCTTCGCGAGAGAAAGAC
GGCTTAGTATCGAAGAAGGGGTGGATccccTCCCAACGCACAAATACACACCTTTTGA
AGCTACTGCACAGGTCAACCCATTGTATAAGCTGGGACCACAAAGTTAGCTCCTGGGATG
ACAGAGATAAGTGGAGATGGTTCTGCAATTCCACAAAGCSAATTGTGACTCAGAAAGAGG
ATTCAACCCATATGTCTGCAGTCAAGGAGGCAGAAAGCAGCGCCAGGTGTCCCGGGA
CAGCCACGCGCACGTTAGCAGACAGGGAGCTTGGAAAGTTCATACGCAGATCGATTAC
ATACACTGCCCTCGTGCCAGATTGTCTTCAGATCACAGGGAATCCCTGTACTGTGGGCG
TGATGGACCGATACGAGGCCGAAGCCCTTCTAGAAGGGAACCGGAAGCACGTTCTT
GCTCAGGGACTCTGACACAGGAGGACTACCTCTTCTCTGTGAGCTTCCGCCGCTACAAAC
AGGTCTCTGCACGCCCGGATCGAGCCAGTGGAAACCAACATTCAGCTTCGATGCCCATG
ACCCCTGCGTGTTCACCTCCTCCACwGTCAAGGGGCTTCTCGAACACTATAAAGACCC
CAGCTCTGCAATGTTTTTTGAACCGTTGCTAACGATATCACTGAATAGAACTTTCCCT
TTCAGCCTGCAGTATATCTGCCCGGCAGTGATCTGCAGATGCACCTACGTATGATGGGA
TTGACGGGCTCCCGCTACCGTCGATGTACAGGATTTTAAAGAGATCATATATAA
ACAAAAGTTAGGGTTCGCTGGTTAGAACGAGATCCAGTCAAAGCAAGTAActcctg
tccccaaaggcactaaagtctgtctcctcccgtagcatcmgaactgcaccccatagg

FIG 20A(II)

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raggcagtcagctgctaggatttccccccagaatggggagcttagtcatttagcctctg
ccctatggggtccgctgttccctcagacaaaagggtgcctagggacagcaagatggcttgc
aggtgttcggtgggctgtgacaaactgagggaggcaactctggggcatcttgctatgaag
aattctatttcttaccgaagaacaaattattaatattggatgggtatttcaatagtg
gactaatgtttgaaaattatttttctaagaatttttctataaaccttcagaaaaagtag
tgatgtttgtagttactataaatcaagctttgaaagttcaaaaacaaagttaaata
aaagactaccttccttttagagaaaaacaaatgcaagttttccagccacaggcattgt
gcactgttaatgttngcttggtatcagctcctttctcctcc

FIG 20A(III)

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MDKVGKMWNNLKYRCQNLSHEGGSRNENVEMNPNRCPVKEKISISLGEAAPQQESSP
 LRENVALQLGLSPSKTFSTRNQNCAAEIPQVVEISIEKDSDSGATPGTRLARRDSYSR
 HAPWGGKKKHSCSTKTQSSLDTEKKFGRTRSGLQRRERRRYGVSSMQDMDSVSSRAVGS
 RSLRQRLQDTVGLCFPMRTYSKQSKPLFSNKRKIHLSELMLEKCPFPAGSDLAQKWHL
 IKQHTAPVSPHSTFFDTPSLVSTEDDEDRLRERRRLSIEEGVDPPPNQAQIHTFEAT
 AQVNPLYKLGPKLAPGMEISGDGSAIPQXNCDSEEDSTTLCQSRQKQKQVSGDSH
 AHVSRQAWKVHTQIDYIHCLVPDLLQITGNPCYWGVMDRYEAEALLEGKPEGTFLLR
 DSAQEDYLFVSFRRYNRSLHARIEQWNHNFSDAHDPCVFHSSXVTGLLEHYKDPSS
 CMFFEPLLTISLNRTPFSLQYICRAVICRCTTYDGLDGLPLESMLQDELKEYHYKQK
 VRVRWLERXPVKAK*

FIG 20B

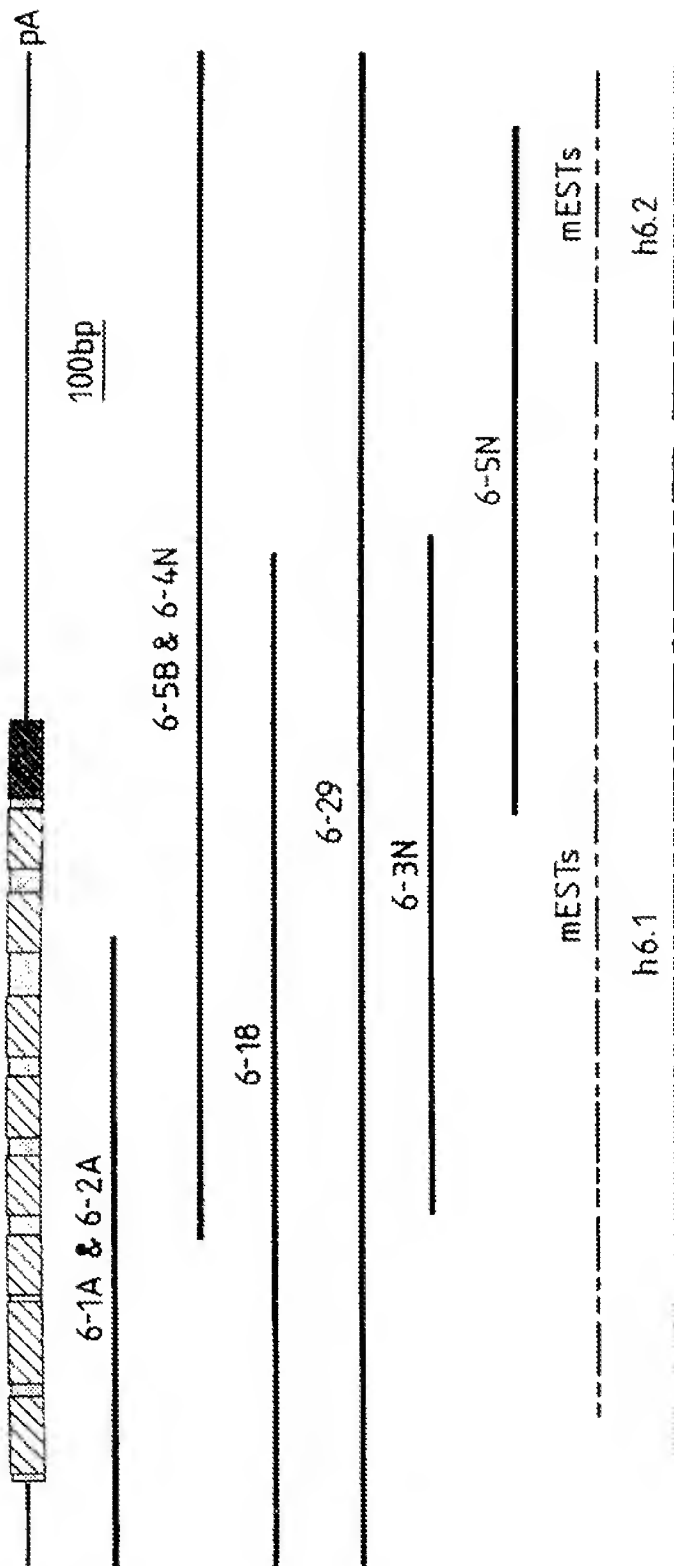
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GATTAAACAGCATACAGCTCCCTGIGAGCCACATTCACATTTTGTGATACFTTTGATCCATCTTTGGTTT
CTACAGAAAGATGAAGAAGATAGGCTTAGAGAGAGAGAAAGCGGCTTAGTATTGAAAGAGGGTTGATCCC
CCTCCCAATGCACAAATACATACATTTGAAGCTACTGCACACAGGTTAATCCATTATvTAAACTGGGACCA
AAATTAGCTCCTGGAATGACTGAAATAAGTGGGACAGTTCTGTCAATTCACAAAGCTAATTTGTGACTCG
GAAGAGGATACAACCAACCTGTGyTTGCAGTACGGAGGCAGAAAGCAGCGTCAGATATCTGGAGACAGC
CATACCCATGTTAGCAGACAGGGAGCTTGGAAGTCCACACACAGATTGATTACATACACTGCTTCGTG
CCTGATTGCTTCAAAATTACAGGGAATCCCTGTTACTGGGGAGTGTGACCGTTATGAAGCAGAAGCC
CTTCTCGAAGGGAACCTGAAGGCACGTTTTTTGCTCAGGGACTCTGCGCAAGAGGACTACTTCTCTCT
GTGAGCTTCCGGCGATACAACAGATCCCTGCATGCCCGAATTGAGCAGTGGAAATCACAACTTTAGTTTC
GACGCCCATGACCCGTGTGTATTTCACCTCCCTCCACTGTAAACGGGACTTTTAGAACATTATAAGATCCCCA
GTTCTGTCATGTTTTTTGAACCATTTGCTTACTATATCACTAAATAGGACTTTTCCCTTTTAGCCCTGCAGTAT
ATCTgTcGGCGGTAATCTGCGAGGTGCACCTACGTATGATGGAATTGATGGCTCCCTCTACCCCTCAATGT
TACAGGATTTTTTAAAAGAGTATCATTATAAACAAAAAGTTAGAGTTCGCTGGTTGGaACGAGAACCCAG
TCAAGGCAAAAGTAAACTCTCCGGTCCCCAAAGGgTGTAACTAGGTCCGCTTTCATGTGCAATCAGACAGT
ACACCTATAGCAAGCACACGTAGCAGTGTTAGGCTTTTTCATACAGTATGTAAAGcTTAGTGTAGTAICT
GTCAGAGCTACCTGCTGTTACTTATTCAGATAAACATGGGGCTATTTGGAAACAATAGcGGATAGAGCTAC
AGGTGTTCAGTAAGACTACAAAAACATTTTGGCTATTTTCGCTAACAGTTTGGTTTTTAATGGCTGTGGA
TTTGAGTGAGGCAACTCTGGGGCATTTGTTATGAAGAAATG

FIG 21

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SUBSTITUTE SHEET (RULE 26)

FIG 22

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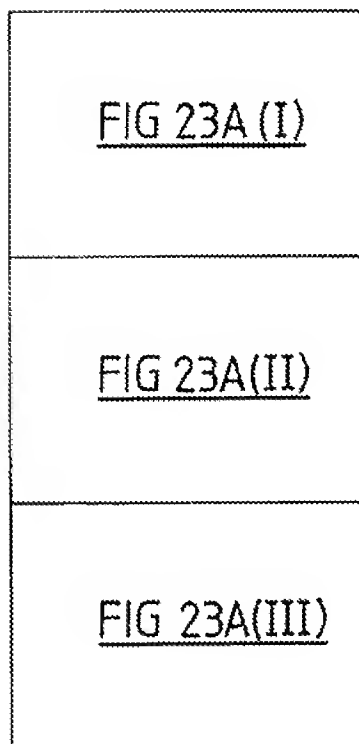


FIG 23A

FIG 23A(I)

[illegible]

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GGTGGCAGATGACAGGCTGCTCAGGATCTGGGCTCTGGAACCTGAAGGCTCCGGTTGCC
 TTTGCTCCGATGACCAATGGTCTTTGCTGCACGTTCTTCCACACGGTGGAATTATTC
 CCACAGGACGAGAGATGGCCATGTCCAGTTCTGGACAGCTCCCCGGGTCCGTGCCCTC
 ACTGAAGCACTTATGCAGGAAGCCCTCCGAAGTTTCTGACAAACGTATCAAGTCCTA
 GCACTGCCAATCCCCAAGATGAAGAGTTCTTCACATACAGGACTTTCTAGCagt
 gccggctccccacactcctgcagcagcagcagtaacaaggactggctaggatggagtc
 aggcagctcacactggaccagtggtggacccttccttcctcccatggcatgtgcaagtag
 gtctgggtgaccccaacttctgtggtgcccggccttacctcgtcttcctccgtggtagc
 agccttcgtcagtcagttgtgtgaagccaagtgccagttgtggatgttgctggggtgta
 ataaaggccaagcgggtccagagccctctctgtggtggcggccaagccacactcccttaac
 tgggaagtacctgcccacgtagggcatttctgctgcctatttccagccagcggctgcat
 ggtttgaaagttcctccgttggtggtcagaagaactctgggtgttggttccctgctcagc
 tgcgcgtggactgggctgagctcctcaccatacacactagtgccgggttttggtttccctgt
 aaacagtgggtgcatgtgtagagaagtaacaagcgagtatcagatcatcacgaggagg
 cgttcctcgggtgcatgacgggtcagatggccatttatcagcatatttatttgtattttc
 tcagcacatagtaaggtaacaactgtgttttctcaattgtctcgaaaaaacagagtctc
 taagtggcccaagttgtggagccaagtcctaagtcgtgtggagtcagtgctgacatcact
 ggcttggtgctgtgtcacatgtgtttgtctctgtgcttgacctcatggggtgtacc

FIG 23A(II)

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ctccagttcaactgccccaaaaacagacagcccccttccaagcaccggtcttttgacagcgg
tagcagctacctattcaagacgcctcacacaaaatctgccttagaaaagttaatatatt
ttaaattattttaaagaactcaacatcttattctttggccttcttaattgatgct
ttatggaggcagtggttaacattgtacagtgtagcatagaggagtcctcctctatttga
agaacaatgcataatgaggcttctcattgaagggaataaaaaaa

FIG 23A(III)

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MEAGEEPLLLAELKPGRPHQFDWKSSCETWSVAFSPDGSWFAWSQGHCVVKKLVWPWPLE
EQFIPKGFEEKSRSSKNDPKGRGSLKEKTLDCGQIVWGLAFSPWPSPPSRKLWARHHE
QAPDVSCILLATGLNDGQIKIWEVQGTGLLLNLSGHQDVVRDLSTPTSGSLILVSASR
DKTLRIWDLNKHGKQIQVLSGHLQWVYCCSISPDSCMLCSAAGEKSVFLWSMRSYTLI
RKLEGHQSSVSCDFSPDSALLVTASYDTSVIMWDPYTCARLSLHHTQLEPTMDDSD
VHMSSLSRVCFSPEGLYLATVADDRLLRIWALELKAPVAFAPMTNGLCCTFFPHGGII
ATGTRDGHVQFWTAPRVLSSLKHLCKALKRSELTYYQVLLALPIPKKKMKEELTYRTF*

FIG 23B

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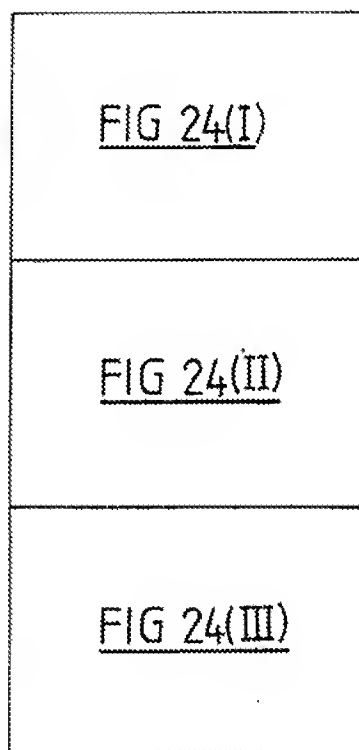


FIG 24

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h6.1

GACACTGCATCGTCAAACTGATCCCCCTGGCCGTTGGAGGAGCAGTTTCATCCCTAAAGG
GTTTGAAGCCAAAAGCCGAAGTAGCAAAAATGAGACGAAAGCGGGCAGCCCAAAA
GAGAAACGCTGGAAGTGTGCTCAGATTTGCTGGGGCTGGCCCTTCAGCCCTGTGNCCTT
CCCCACCCAGCAGGAAGCTCTGGGCACGCCACCCCAAGTGCCCCGATGTCTCTCTG
CCTGGTCTTGTACGGGACTCAACGATGGGCAGATCAAGATCTGGGAGGTGCAGACA
GGGCTCCTGCTTTTGAAATCTTTCCGGCCACCAAGATGTCTGTGAGAGATCTGAGCTTCA
CACCCAGTGGCAGTTTGATTTTGGTCTCCGCGTCAACGGGATAAGACTCTTCGCATCTG
GGACCTGAATAAACACGGTAACAGATTCAAGTGTATCGGGCCACCTGCAGTGGGTT
TACTGCTGTCCATCTCCCAGACTGCAGCATGCTGTGCTCTGCAGCTGGAGAGAAAGT
CGGTCTTCTATGGAGCATGAGGTCTACACGTTAATTTCGGAAGCTAGAGGGCCATCA
AAGCAGTGTGCTCTTGTAATCTTCCCCCGACTCTGCCCCCTGCTTGTCAACGGCTTCT
TACGATACCAATGTGATTAATGTGGGACCCCTACACCGCGGAAAGGCTGAGGTCACTCC
ACCACACCCAGGTGACCCCGCATGGATGACAGTGACGTCCACATTAAGCTCACTGAG
ATCTGTGTGCTTCTCTCCAGAAAGGCTTGTACCTTGCCACGGTGGCAGATGACAGACTC
CTCAGGATCTGGGCCCTGGAACTGAAAACTCCCATTTGCATTTGCTCCTATGACCAATG
GGCTTTGCTGGCACATTTTTCACATGGTGGAGTCAATTGCCACAGGGACAAGAGATG
GCCACGTCCAGTTCTGGACAGCTCCTAGGGTCTCTGCTCACTGAAGCACTTATGCCC

FIG 24(I)

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GAAAGCCCTTCGAAAGTTTCCCTAACAACTTACCAAGTCCCTAGCACTGCCAATCCCCAAG
AAAATGAAAGAGTTCCCTCACATACAGGACTTTTAAAGCAACACCACATCTTGTGCTTC
TTTGTAGCAGGGTAAATCGTCCCTGTCAAGGGAGTTGCTGGAATAATGGCCAAACAT
CTGGTCTTGCAATTGAAATAGCATTTCTTTGGGATTGTGAATAGAAATGTAGCAAAACCA
GATCCAGTGTACTAGTCATGGATTTTTC

FIG 24(II)

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h6.2

ACCATGGTTCCAAGNTCCTCTCCYKCCCTGTGTCMRAAGTTGCYYCCGAATGTTGGCC
CCAAGTGCCTTTTCYCTCCTTGGGCCCTCCCTCTCTGACCTGCAGGACAGTTTTCYGG
AGCCCATTTGGTATGAGGTATTAAWTTAGCCCTTAACTAAATTACAGGGGACTCAGAGG
CCGTGCTCCTGACCGATCCAGACACTATTTTCTTTTCTTTTAAACAATGGTGTGC
ATGTGCAGGAAATGACAAATTTGTATGTCAGATTATACAAAGGATGTATTCTTAAACCG
CATGACTATTCAGATGGCTACTGAGTTATCAGTGGCCATTATTAGCATCATATTTAT
TTGTAATTTCTCAACAGATGTTAAGGTACAACCTGTGTTTCTCGATTATCTAAAAAC
CATAGTACTTAAATTGAAAAA

FIG 24 (III)

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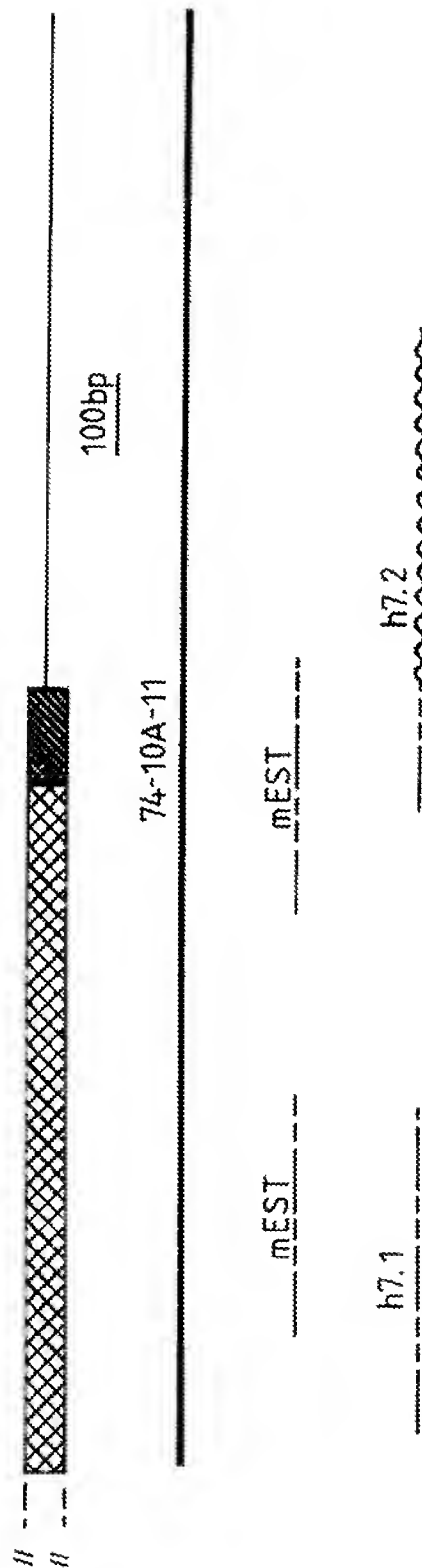


FIG 25

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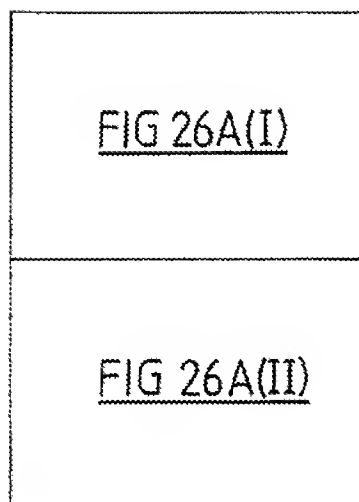


FIG 26A

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GGCACGAGCGGGGTCAGGGCCGAGGCTGAGGACCAAGTAGGCATGGCGGAGGGCGGG
ACCGCCCCGATGGACGGGCGGCCCCGACCCGACGGTCTAATCTGAAGGAGTGCG
TGAGGGAGCAGTTCGTGTGACCATCCACTGGAGCACTGTGACGATACAAGACTCCATGA
TGCAGCCCTATGTAGGGGACCTCCAGACCCCTCAGGAACCTACTGCAAGAGGAGAGCTAC
CGGAGCCGCATCAATGAGAACTCTGTCTGTGGTGTGGCTGGCTTCCCTGCACACCAC
TGAGGATCGCAGCCACTGCAAGCCCATGGAACTGTGTGGACTTCCCTCATACGCAAAGG
GGCCGAGGTGGACCTGGTGGATGTCAAGGGGCAGACTGCCCTGTATGTGGCTGTAGTG
AACGGCAGCTTGGAGAGCACTGAGATCCCTTTTGGAAAGCTGGTGTGATCCCAACGGCA
GCCGGCACCAACCGCAGCACTCCTGTGTACCATGCCCTYTCGTGTGGGTAGGACGACAT
CCTGAAGGCTCTTATCAGGATATGGGGCAGATGTTGATGTCAACCAATCATCTGAATTCT
GACACCGGGCCCCCTTTTTCACGGCGGCTAACCTCCTTGGTGTCTGTCTCTATACA
TCAGTGCTGCCCTACCATAACTTCAGTGTCTCAGGCTGCTCTTGCAGGCTGGGGCAAA
TCCTGACTTCAATTGCAATGGCCCTGTCAACACCCAGGAGTTCTACAGGGATCCCCCT
GGTGTGTCAATGGATGCTGTCTCCTGCCCATGGCTGTGAAGCAGCCCTTCGTGAGTCTGT
TGGTAGAGTTTGGAGCCAACTGAACCTGGTGAAGTGGGAATCCCCTGGGCCCCAGAGGC
AAGAGGCAGAAAGATGGATCCTGAGGCCCTTGCAGGTCTTTAAAGAGGCCAGAAAGT
ATTCCCAGGACCTTGCCTGAGTTTGTGCCGGGTGGCTGTGAGAAAGAGCTCTTGGCAAAT
ACCGACTGCATCTGGTTCCCTCGCTGCCGCTGCCAGACCCCATAAAGAAAGTTTGTGCT

FIG 26A(I)

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TTATGAGTAGcattcacatgcagtgctgactgcaatgtggaagccgatacacctgcagt
gaaaactgacacagactctggcatcctctgggaaccatggcctgtgctgccagcttgatc
cttggctgtcagtgaaagaaaaaacggctgtgtctcttggaactgtgattctatctcag
gtgcttgggccatcgaaacgctccttgagtcattgtcaactgagaggcacatacaaaact
taattttgttcctctcttcagtcctctctgttttggaattcttcctggcaatgtgtgcagca
tgggctgagcctggtgattgcccctagtggggaaggctttttctccaggctatgcatac
tatttatgttcctacttttgcaattttattgttcttttaaggcttgatatcaaaaacagaa
agaggtttgttaagaaaaagatatagggaagaaaggaaattccgggtcccgtagcacttgcta
gcctgctttcctctggcctgggtttgtctgtctctatgctgcctgggtgcacatcccttctct
ttgctgccactgttctatttttgggagttgtcttccttaagatggcttcttgggggttc
tatcttattgcacagaggtcccagaaacagtggttcataggggcaccaatctgctctgccaa
gggttttctgatgtcttaacctggggatcttcagacagtggttacctttaggagacccc
acctggaaactaacatttaagtgaactgcccacattcagatcagggaaccattcttaatagt
actcactgccagtcctcacaagagaagatgacacgggtgctctcttcagacactccca
tacaggaaagttggaaaaatgtcttgggtcacctgggtgtttcccaggctacaaacttcttg
gtgttccactaaraccagrataatcctagttttttgggttgactgtttccctcccactt
tcttgaanccaatgcccntttgtktnggttgcttccctaaaakt

FIG 26A(II)

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...ARGGVRAEAEQVGM AEGGTGPDGRAGPGAGPNLKEWLREQFCDHPLEHCDDT
RLHDAAYVGDLQTLRNLLQEESYRSRINEKSVWCCGWL PCTPLRIAATAGHGNCVDFL
IRKGAEVDLVDVKGTALYVAVVNGHLESTEI LLEAGADENGSRHHRSTPVYHAXRVG
RDDILKALIRYGADVVDVNNHNLNSDTRPPFSRRRLTSLVVCPLYISAAYHNLQCFRLLQ
AGANPDFNCNGPVNTQEFYRGSPGCVMDAVLRHGCEAAAFVSL LVEFGANLNLVKWESL
GPEARGRRKMDPEALQVFKEARSI PRTL LSLCRVAVRRALGKYRLHLVPSLPLPDPK

KELLYE*

FIG 26B

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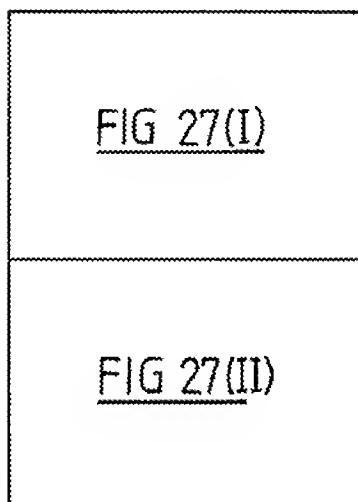


FIG 27

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h7.1

GCATCCATGGCGGAGGGCGGCAGCACGGCGGGCAGGCGGGCTCCGCAGGTCC
TAATCTGAAGAGTGGCTGAGGGAGCAATTTTGTGATCATCCGCTGGAGCACTGTGAG
GACACGAGGCTCCATGATGCAGCTTACGTCGGGACCTCCAGACCCCTCAGGAGCCCTAT
TGCAAGAGGAGAGCTACCGGAGCGGCATCAACGAGAACTCTGTCGTGCTGTGGCTG
GCTCCCCCTGCACACCGTTGCGAATCGCGGCCACTGCAGGCCATGCGGAGCTGTGTGGAC
TTCCCTCATCCGGAAGGGGCCGAGGTGATCTGTGTGGACGTAAAGGACAGACGGCCC
TGATATGTGGCTGTGTGAACGGGCACCTAGAGAGTACCCAGATCCTTCTCGAAGCTGG
CGCGGACCCCAAC

FIG 27(I)

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h7.2

GAGGAAGAAAGTGGACCCGTGAGCCCTGCAGGCTCTTAAAGAGGCCAGAACTGT
TCCCAGAACCTTGCTGTCTGTGCCCCGTGTGGCTGTGAGAAAGAGCTCTTGGCAAAAMAC
CGGCTTCATCTGATTCCCTTCGCTGCCCTCTGCCAGACCCCATAAAGAACTTCTACTCC
ATGAGTAGACTCCAAAGTGTGCGGTTGATTCCAGTGAGGAGAAAGTGATCTGCAGGG
AGGTGGACACCGAGCCCTGAGTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
CAGAAAGATGTCCCTCGTAGACTGTCAATTGCTCCTCAGGTGCCCTGGGCCCGCTGAACAGTC
CTTGGGTCAATTGTCAGCTGAGAGGCTTATACTAAAGTTATATTGTTTTTCCCAAGTT
CTCTGTTCTGGATTTTCAGTTGCATATTAAATGTAACGGGCCCATGGGGTATGTACATGT
AGGGGCTGAGGTTGGAGGCCCTACTAATTTCCCTGTAGGGAAGACTCCAGCACTTCTGG
AACTGTGCTTCTCTTTATTTTCTACTTCTCAATTTGATGCTCGATTAAAGCCCTTCT
AGTATCTCAATGAAAA

FIG 27(II)

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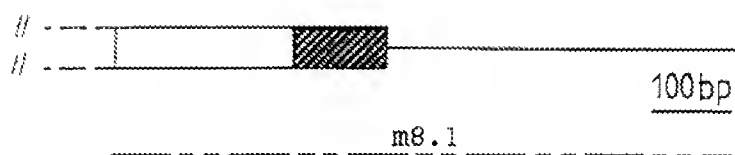


FIG 28

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CTGATGTCCGCAATTCTGAAGTTGGACACCACTGCTGGCTGCCCTGTGACATCCGCTG
TCAATCCCCAAAGGATGCTGAGGCCACCAACCAACCGCTGTTTCAACTGTGCCGCTTG
CTGCTGTCTGTGGGGCAGATGCTGATGAATACATAACCGTGTAGTTCAGCTTCCTGAG
GAGGCCAAGGCTTGGTGCCACCAAGAGATTCTACAGAAGTACCATGGATTCTACTCTT
CCCTCTTTGCCCTTGGTGAGGCAGCCAGGTCGCTGCAGCATCTCTGCCGTTGTGCCGT
CCGCAGTCACTGGAGGCTGTCTGCCCCATGCACCTACCGCGCCTTCCCCCTGCCACCG
CGCATGCTCCGCTTTCTGCAGCTGGACTTTGAGGATCTGCTCTACTAGGcttgcctgcc
ctgtgaacaaagcagacccccaccccccaaggcatctctcagcaatgaatgatg
caaggcggctctgtcttcaagtcaggagtggacgccttgatccacacttgagagaaagag
gccagatcagcacccyggctggtagtgatngcagagggcacctgtgcagatctgtgtgc
gcactggaaatctctaggctgaaggcyagagcaaatggtgcaargtgtagtcccttggg
angagagacaganggtgagaaagcaagacagaggtgagagtgacacatgtcaagtggta
gatgtcccttaaaagaaagctaaaaaaagaaaaagattcggggcgaaactctcttaggggt
aatgtgtcagcgtgttaaaactgactgaccagcgtccatatcttggacccttccccggg
tgaaaaagcccccttcattctccagcgtcccccaagggtgcttagcaataccgggtgct
tttctgccgcaagtgaagtaccaaa

FIG 29A

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...MSAILKVGHHCWLEPVTSAVNPQRMRLRPPPTAVFNCAACCCCLWGQMLMNTYRVVQ
LPEEAKGLVPPETILQKYHGFYSSLEFALVRQPRSLQHLCRCALRSHLEGCLPHALPRLP
LPPRMLRELQLDFEDLLY*

FIG 29B

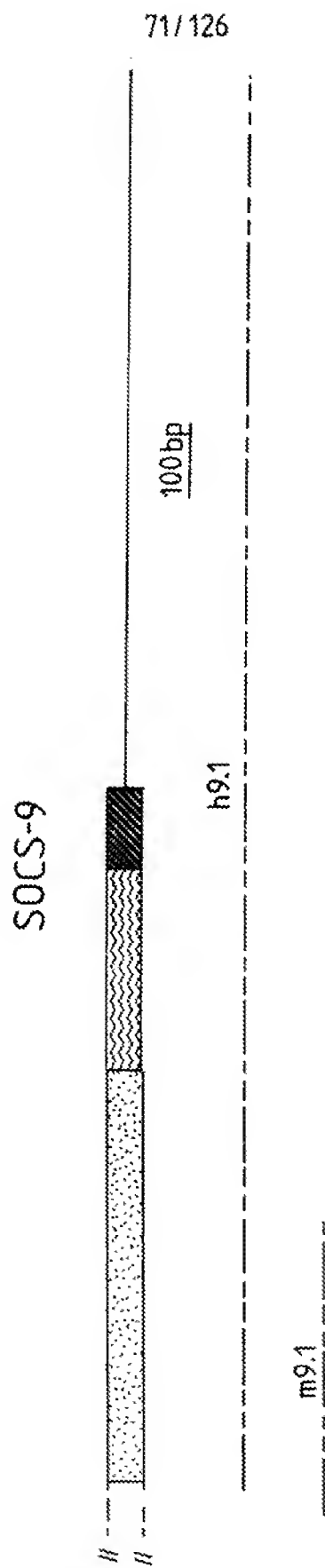


FIG 30

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GTGGGGCGTCATGACCTCCTCTAGGGCTCTGCAACATGACTCCTGTGTGCAAA
TCAACAAATTGTTCACTGATGAATCCACAAGGATCTCTGGGCCCTACAACCAAGTCCCTG
GTCCACATGACTGTCGTCTTCGGAGAAGGCACCACTCGCCCCCGGCAGGTACGGCTGA
CACCTCCATGGGAGAAGACGTATCCAGGCAGCAGCTGCGCGGCCCTTCAAGAGGGCAC
ATCCCGTCATCTAAAGGCACCGTGTACTGAAGGTAGTCTCTGAGACATGAGTCCGATTA
CTACAGGCACGTTGTTCTCCAGGTGGAGGCTCAGGTCCCCGGGTGAGCTGGGGCTGCA
GGGGACTCAGGGCGCGGCTCTGGCTGCAGGTCTCGCAGCTCCCTGGGCTGTAGCTCC
CGCAGATCCTTCCGCACACCGTTGACTGGT

FIG 31

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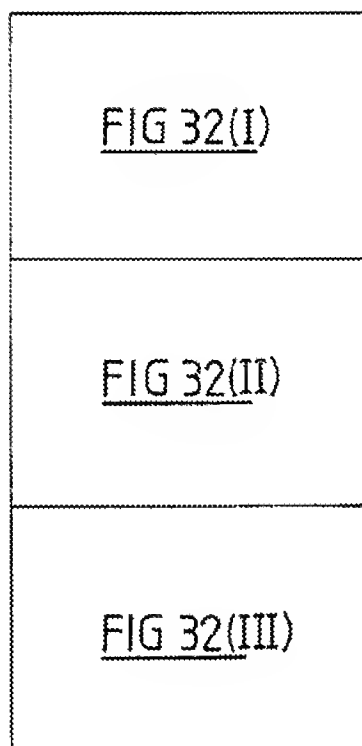


FIG 32

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TTAATAGTACCTACATAGTAGAAAATTATAACTCCACTTTAAAACAATGTTTTCCTTC
TATTCAAAATCAATTTAAAACCTTTTATAAACAATAATGTGCAAGAGAATCCAGTCCA
TTTATGAAAATTAGTTGACAAATCAAGTTCACCCCAAGAAAATGTTGACTAAGCTAAAGA
AATCACAGATAAAACATTTTACC AAAAGGATAGGTAACACACAAAATAATGCTATACAC
AGGAAGCTNATGATCATCTAATAATTTCTTTTAATAATAATTCCTAGTTCCTCATAGCTTTTC
ATGTTATGCCCAATTGTGTACCCGAGTTTAAATTACAGAAAAGGCAACAATTTCTAAAATTG
GTGGTATACATTTCTTTTACAAATTTTAAATGTAAAGGCCATTTATTAATAATAGACAAAC
TAGAAGATGAAAACGGAAGCAACAGAAAATAATCAACTTTTCACAACCAAAAAGAAATTAG
CACAACTTAGAAAATAATTAGAAAAAAGTGTGTTAAAAGATATGTTGCAGATCTCTCC
GTTCCATTACCCAAAGATTATGTCAAAATTCACGATTCTAAAATAAACTTTTAAAGTAAG
AGATTAAAACCTCATCTTCAGTGTAATATGTAAAATTCCTGCTGTTTATCACACAGGTAT
GTTTATTCAACACTGKCTTTGGAAAANFGGACCATTTAAAAGGACATGGCAATTTCCCAT
TCTGTTAAGTTTCAATTCAACCTTTTACTTAGGGGTTGTRATTACCACATGAAAATGNTGCT
TTTAAATGCCATAAAAATCACAGTGGAATTAGCCAGCAAAAAGGACTGGGCGGGGGGCA
TTGAGGAGAAATTTGATAAATTCACATTTGTGATTATTCTGCACATTTGATGAAACATAATT
CACACCTCTAAAACCTCAAGACTTCCCTTTTAAAGAACCAAAAATAAACCCAAAGACA
CCTTGCTGACACTTCCCCCACCCTTAAACAAACTGATGACTCTTTTACACATAAAACTG
AAATAGTTATGGCAGCAAAAGAATTTTGATGGCAATGAAAAGTTTGTAAACTGTATTTCA

FIG 32(I)

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AATCTCTGTTCTTATTCCCAAAGTGCAAGATGCAGGGTTCTCAATCTTTCAGTAGTGC
TTCTCCTGTAAATAAATCCATTCTATTGTTGGCAAAGGCAGTTTCTGAATTAAAGTCTA
TTCTGGTATACTGACGTATAACAAACGACACAGGTACTGCAACGAGCGCACCTSSAT
GAACNCCGRGAACACTGGSTTGGYCAAGTTCTNGACRRGKAAGKTCAGATTCACAG
GCAGCYGAGACCTTGAAATAACAAAAAGCTCCCATTTTTCAGAGTCCCCTGATTGAATGCT
CCAAATTAGATCAACTATGGACGTATGTCCCTTCCACATCNGGCTGTTTCATATAAAAGCTAA
ACCTACCAATTGAGTGCTCAATTCTAGTGTGAAGTGTTTTACCATGGGAGCGGAAAGTC
ACAGCTTAAAAGGTAAACGGTCGTCAGAACTGTCCCGAAACAAGAAAGAACCATCTGGC
ACGTTTGCTAGCTTCCCTTCTGCCCTCCCAACGTGTGATTGGTCCCCAGTACCATCCTT
GCTTTGCCAAGTTTTTTCAGCTCCTCTGTAAAGCTTGTCAACAACCATGGGACCACTACT
TTGCACCTGAGTCATAAACTCTTGCAACCCAGGAGCAGAGTTCGGATCAAAATTCAAA
TGACAGCGCATAACTTTNCAGCCACGTGGGGCTTTTCTGTSCCAGTCACTCCACTGAAA
GTTCCCCCTTTGGGATTGGAATTATTCCCTGCCATTGGAGNTAACCAATGGTGAAGATTGG
AGGGACATCCATCGTGAACCCGCTCTCCGGGGTTCTGCAACATGACTCCCGTGGTGCC
AATCAACAAGCCATTCAACCGGACTGATCCACGAAGATCTCTGGGGCGACAACTAGGTC
CTGGTCTACCTGACTCTCATCTCGGGGAAAGCGGCCCTCCACATTGAGGAGGAACC
GCAGAGACTTCCATGGGAGAAAGAGCTGTCCAGACAAATAGCTCCGTGATCCTTCCCAAAG
GATACATCCCCCTCATCTAAAGGCACAGTATATACTGAATGTAGTCTTGAGGCATAAGTCC

FIG 32(II)

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AATAACGACAGGCACATGTTTCATCCAGGTGAAGATGCAGGTCCTCCATTATGAGAAAGCC
GAGCTCTTCAGTGAAATTGGCTTGCTCCTGGCACGTTGGTCTCAGACCTCGAGGTCGT

FIG 32(III)

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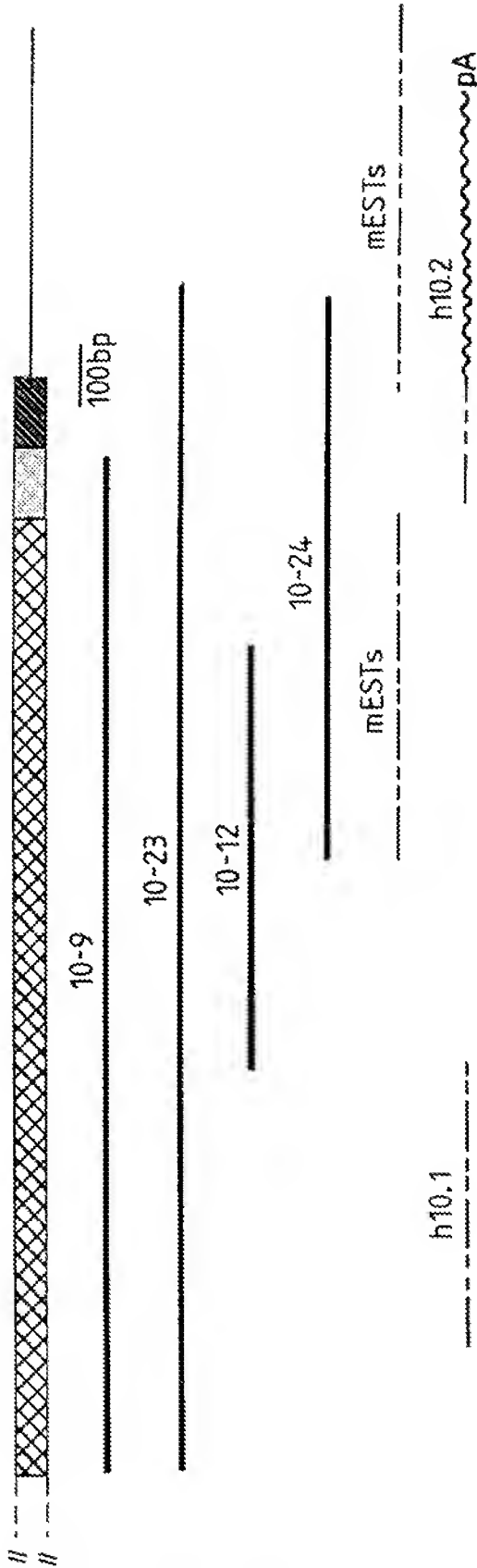


FIG 33

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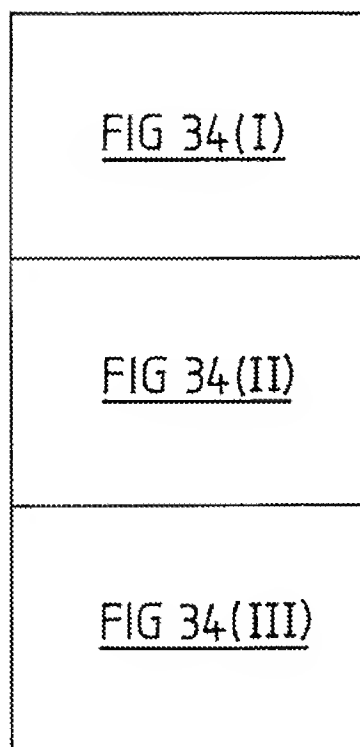


FIG 34

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GGCACGAGGCTGTGTCCAGCACACAGAGAGGGCCCGGCATCTGCTTTGGTTCAGAGC
CCTGTGTCTGTCTCACTTAGACTCTTCCTCCCGGCTCGCAGCTCACCCCTCCATCCT
CCTTACTGGCTCCAGCATGACTCGCTTCTCTTATGCAGAGTACTTTGCTCTGTTCAC
TCTGGCTCTGCAACCTTCCAGGTCCCTTCGTCTCCCGAGAACCCACCGGCCGCGCAC
CCCTGGGTCTGTTCCAAGGGTTCATGCAGAAAGTATAGCAGCAACCTGTTCAAAGACCTC
CCAGATGGCGGCTATGGACCCCGTGTCTGAAGGCCATCAAGGAAGGGATGAAGAGGCC
TTGAAGATCATGATCCAGGATGGGAAGAAATCTTGCAAGAGCCCAACAAGGAGGCTGGC
TGCCGCTCCACGAGGCTGCCCTACTATGGCCAGCTGGGCTGCCCTGAAAGTCCCTGCAGCA
AGCCTACCCAGGACCAATTGACCAACGCACACTGCAGGAAGAGACAGCATTATACCTG
GCCACATGCAGAGAACACCTGGATTGCCCTCCTGTCTCCAGCGGGGGCAGAGC
CTGACATCTTAACAATCCAGGGAGACTCCACTTTACAAAGCCTGTGAGCGCAAGAA
CGCGGAGCGGTGAGGATATTGTTGCCGATACAAACGCAGAGCCCAACCCGCTGTAAAC
AGGGGCTGCACCCGCACTGCACGAGTCTGTCTCCCGCAATGACCTGGAGGTCATGGAGA
TCCCTAGTGAGTGGCGGGCCAAAGGTGGAGGCCAAGAATGTCTACAGCATCACCCCTTT
GTTTGTGGCTGCCAGAGTGGCCAGCTGGAGGCCCTGAGGTTCCCTGGCCCAAGCATGGT
GCAGACATCAACACCGCAGGCCAGTGACAGTGCATCAGCCCTCTACGAGGCCAGCAAGA
ATGAGCATGAAGACGTGGTAGAGTTTCTCTCTCTCAGGGCGCCGATGCTAACAAAGC
CAACAAGGACGGCCTGCTCCCCCTGCCATGTTCCTCCCAAGAAGGGCAACTATAGAAATA

FIG 34(I)

FIG 34(II)

GTGCAGATGCTGCTGCTGTGACCAAGCCGACGGCGGTGCGCGTAGCGGCATCAGCC
CGCTGCACCTAGCGGCCGAGCGCAACCAAGCGCGGTGCTGGAGCGCTGCTGGCCCG
GCGCTTCGACGTGAACGCAACCTCTGGCTCCCGAGCGCGCCCTCTACGAGGACCGC
CGCAGTTCTGCGCTCTACTTCGCTGTGGTCAACAACAATGTGTACGCCACCGAGCTGT
TGCTGCTGGCGGGCGGACCCCAACCGGATGTCAATCAGCCCCTCTGCTCGTGGCCAT
CCGCCACGGCTGCCCTGCCGACCATGCGAGCTGCTGTGGACCATGGCGCCAACATCGAC
GCCTACATCGCCACTCACCCCAACCGCCCTTCCAGCCACCATCATGTATTGCCATGAAGT
GCCGTGCTGTTACTCAAGTTCTTATGGACCTCGGCTGCGATGGCGAGCCCTGCTTCTC
CTGCCCTGTACGGCAACGGCGCGCACCAACCGCCCGGACCTGGCCGCTTCCACGACG
CACCCGTGACCGACAAGGCACCTAGCGTGGTGCAGTTCTGTGAGTTCCCTGTCGGCCCC
GGAAGTGAGCCGCTGGCGGGACCCATCATCGATGTCTCTCGACTATGTGGGCAAC
GTGCAGCTGTGCTCCCGGCTGAAGGAGCACATCGACAGCTTTGAGGCACTGGGCTGTCA
TCAAGGAGAAGGCAGAACCTCCGAGACCTCTGGCTCACCTCTGCCGGCTCGGGTTCC
GAAGGCCATAGGAAATAACGGGATAAAACTCTCTGGACACACTGCCCGCTTCCCGGCAGG
CTAATCAGATACTTGAAATATGAGAAATACACAGTAACCAGCCTGGAGAGGAGatgtg9
ccttcagactgtttccgggacgccccagggtggcctgcataccaggacccccctggggtca
gaacagggtgtgacctgtgctggttcttctgtgagcttcacccaaagtgcagaaacctgat
gtggggagtggaacctctgcttctcacactgtcagcggatgcagagaccccgctc

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tgcttcttgccatagccagagaccttcaacctggggccaggagagctggtctgggc
aaggtagccagcagggaatcctggccttaagctggagaacttgtaggaatccctcac
tggacccctcagcttctcaggctgcgaggagacgcccagcccaagtattttatttcwgcg
tgacacaaataacgttggtatcagaaaaaaacacatggggcgagcttattccttag
tagggtatttacttgcatgcngcgcttaaagcntactggaaacatgcgttccnactat
gcttgagaatcccccttgcaactgggtaaacgagagccgacgtgcttcaagggtggatttt
tggnttgcccccttggcggttccgcgggtttgntccgacngtaattgaaccccggtgtttt
gtcaactttcgagtggtccgactattgggggggttttggttggtccccaatttggtgggt
ggtgtgcggacgccacgagaagtgggttcattgggcgataatcattactgngagaatgta
gagcggcggttttacgaataaataatttttaagccgccttcccaaaa

FIG 34(III)

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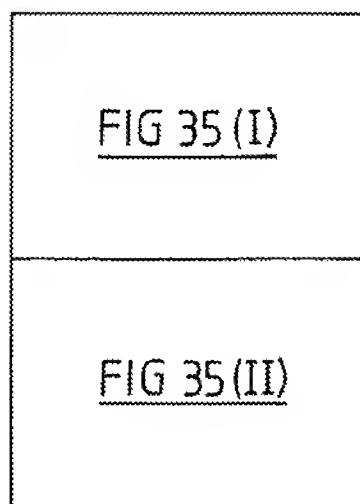


FIG 35

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h10.1

CCTCCTGAGAGTTCGCCGGCCCGGCCCAATGGGnTTGTTCCAAGGGTCATGCAGAA
ATACAGCAGCAGCTTGTTCAGACCTCCAGCTGGCGCCTGCCGACCCCTTGATAAAG
GCCATCAAGGATGnCGATGAAGAGGCCCTTGAAGACCATGATCAAGGAAGGAAGAATC
TCGCAGAGCCCAACAAGGAGGCTGGCTGCCCGCTGCACGAGGCCGCATATATGGCCA
GGTGGGCTGCCCTGAAGTCCTGCAGCGAGCGTACCCAGGGACCATCGACCAGCGCACCC
CTGCAGGAGGAACAAGCCGTTTACTTGGCAACGTGCAGGGGCCACCTGGACTGTCTCC
TGTCACTGCTCCAAGCAGGGGCAGAGCGGGACATCTCCAACAATCCCGAGAGAnACC
GCTCTACAAAGCCTGTGAGCGCAAGAACCGGAAGCCGTGAAGATTCCTTGGTGCAGCA
CAACGCAGACACCAACAACGCTGCACAACCGGGCTG

FIG 35(I)

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h10.2

GTGCAGCTCTGCTCGCGGCTGAAGGAACACATCGACAGCTTTGAGGACTGGGCCGTCAT
CAAGGAGAAGGCAGAACCTCCAAGACCTCTGGCTCACCTTTGCCGACTGCGGGTTTCGAA
AGGCCATTGGGAATACCGTATAAACTCCTAGACACCTTGCCGCTCCAGGCAGGCTG
ATTAGATACCTGAAATACGAGAACACCCAGTAACCTGGGCCACGGGAGAGAGAGTAG
CCCCTCAGACTCTTCTTACTAAGTCTCAGGACGTCGGTGTTCCCAACCTCCAAGGGACC
TGGTGACAGACGAGGCTGCAGGCTGCCCTCCTCAGCCTGGACAGCTACCAGGATCTC
ACTGGGTCTCAGGGCCAGAGCTTTGGCCAGAGCAGAGAACAGAAATGTGTCAAGGAGAA
GAATCATTTGTTTACAAACTGATGAGCAGATCCCAGACCTTCTCTACCTTCAGGAAATGG
CAGAAACCTCTATTCCCTGGGGCCAGGCCAGAGCTTGAGGTGTTCTGGGGAAGGTGTGC
TCAGAGCCCTTCCCTGTGCCCCCTCCACTTGTCTTGGAATACTCACCACTTGACTTCAGAG
CTTCTCTCCAAAGACTAAGATGAAGACGCTGGCCCAAGGTAGGGGTAGGGGAGCCCTG
GGTCTTGGAGGGCTTTGTAAAGTATTATAATAATAATGTGTACACATGTGCAAAAAA

FIG 35 (II)

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TTGGAGAGTGTGGTTGGTATTGGGGCCAAATGAATTGGGAAGATGCAGAGATGAAGC
TGAAAGGGAACACAGATGGTTCTTTCCCTGGTACGAGACAGTTCTGATCCTCGTTACAT
CCTGAGCCTCAGTTTCCGATCACAGGGTATCACCCACCACACTAGAAATGGAGCACTAC
AGAGGAACCTTCAGCCTGTGGTGTCAATCCCAAGTTTGAGGACCGCTGTCAATCTGTG
TAGAGTTTATTAAAGAGAGCCATTATGCACCTCCAAGAAAGTTTCTCTATTTCCTT
AAGATCCAGGGTTCCAGGACTGCCACCAACTCCTGTCCAGCTGCTCTATCCAGTGTC
CGATTCAGCAATGTCAAATCCCTCCAGCACCTTTGCCAGATTCCGGATACGACAGCTCG
TCAGGATAGATCACATCCCAGATCTCCCACTGCCCTAAACCTCTGATCTCTTATATCCG
AAAGTTCTACTATGATCCTCAGGAAGAGGTATACCTGTCTCTAAAGGAAGCGCAGCGT
CAGTTTCCAAACAGAAAGCAAGAGGTGGAAACCTCCACGTAGCGAGGGCTCCCTGCTG
GTCACCAACAGGGCATTTGGTTGCCAAGCTCCAGCTTTGAagaaccaaattaaagcta
ccatgaaaagaagaggaaaagtgagggaacaggaagggtgggattctctgtgcagaga
ctttgggtcccccacgcaagccctggggcttggaagaagcacatgaccgtactctgcgt
ggggctccacctcacaccccccctgggcatcttaggactggaggggctcctctggaaa
actggagaagtctcaacactgtttctttttca

FIG 36A

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...LEKCGWYWGPMNWEDAEMKLGKPDGSGFLVRDSSDPYILSLSFRSQGITHHTR
MEHYRGTFSLWCHPKFEDRCQSVVEFIKRAIMHSKNGKFLYFLRSRVPGLPPTPVQLL
YPVSRFSNVKSLQHL~~CRFRIQRLVRIDHLPDLPLPKPLISYIRKFYYDPQEEVYLSL~~
KEAQRQFPNRSKRWNPPRSEGLPAGHHQGHVLVAKLQL*

FIG 36B

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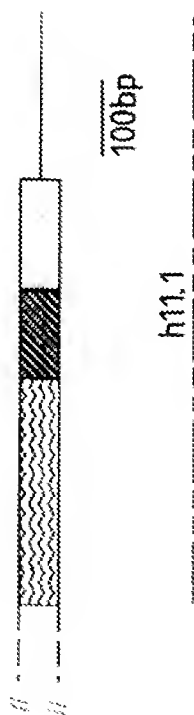
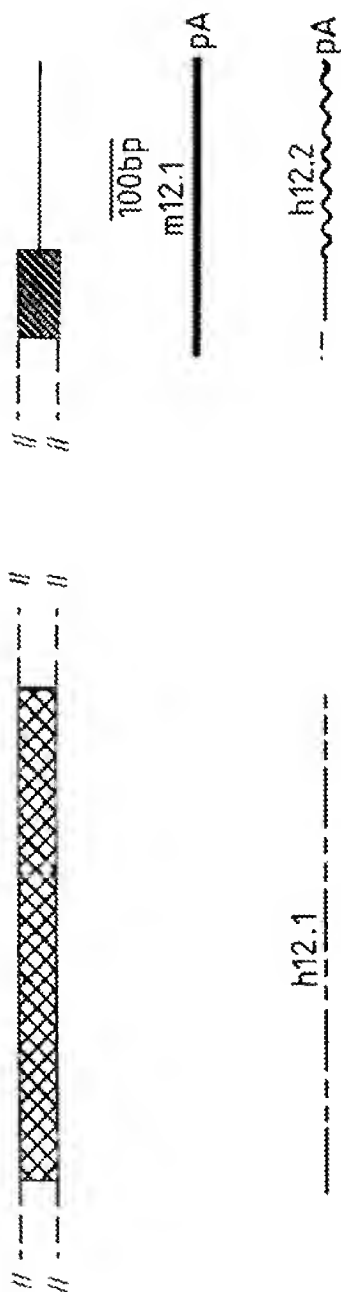


FIG 37

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FIG 38



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GTTCGAAGCCCTAACCCATCTTTGTGCGTTTGGAAATTTCGGGCCAGTCTAAAGCAGAGC
ACCTTCACTCTGACATTTTCATCCATCAGTTGCCACTTCCCAGAAAGTCTGCAGAACTA
TTTGCTCTATGAAGAGGTTTAAAGAAATGAATGAGATTCTAGAACCCAGCAGCTAATCAG
GATGGAGAAACCAGCAAGGCCACCTGACACAGGTCCTTTAAATCTGTtagtcacaaa
agacggcttggtgactgtttggatttggatgaaatgtccatgtttacagttgctt
ttcccagtttggtgtctttcccataatgtgaaaccttatccatccttgcccttactcagtt
ttatttctagtgcaactttgtgtgtattatttggtttaacctgaccattttctactttat
tctgctaataaactgtaattctgaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

FIG 39

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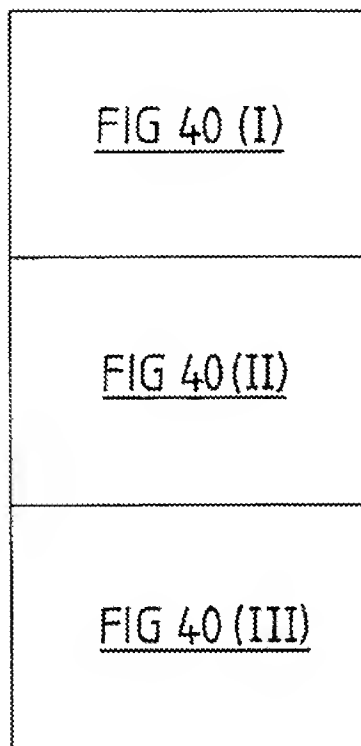


FIG 40

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h12.1

GGGATCGAAAGCGGGGCTTCTGGGACGCAGCTCTGGAGACGGCGCTCGGACCAGC
CATTTCGGGTAGAAAGTGCGACGACGCGCAGACTGGTCAACAAATGGATTTTACACAG
GCTTACGCGGACACGTGCTCTACAGTTGGACTTGCTGCCAGGGAAGGCAATGTTAAAG
TCTTAAGGAAACTGCTCAAAAAGGGCCGAAAGTGTCGATGTTGCTGATAACAGGGGATG
GATGCCAATTTCATGAAGCAGCTTATCACAACTCTGTAGAAATGTTGCCAAATGTTAATT
AATGCAGATTTCATCTGAAAACCTACATTAGATGAAGACCTTTGAAGGTTTCTGTGCTT
TGCACTCTCGCTGCAAGTCAAGGACATTGGAAAATCCTACAGATTCTTTTAGAAGCTGG
GGCAGATCCTAATGCAACTACTTTAGAAGAAACGACACCAATTGPTTTTAGCTGTTGAA
AATGGACAGATAGATGTGTTAAGGCTGTGCTTCAACACGGAGCAAATGTTAATGGAT
CCCATTCTATGTGTGGATGGAACTCCTTGCAACCAGGCTTCTTTTCAGGAAAATGCTGA
GATCATAAATTGCTTCTTAGAAAAGGAGCAAAACAAGGAATGCCAGGATGACTTTGGA
ATCACACCTTTATTTGTGGCTGCTCAGTATGGCCAAAGCTAGAAAGCTTTGAAGCATAC
TTATTTTCATCCGGTGCAAAATGTCAATTGTCAAGCCTTGGACAAAAGCTACC

FIG 40 (I)

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h12.2

CACAAATGGACCATACAAAAATCTTGGNACTTGTTAATAAACCACTTNACTAACCGGG
ACCTGTGACACTGGGNCTAAACAAAGTAAGTCCCTGTTTACTCAGNCAGTGTTTGGGG
GACATGAAGGATTGCCCTAGNAAATATTACTCCGGAATGGTCTACAGCCCAGNACGCCC
AGGCGTGCCCTGTTTTGGATTTCAGTTCTCCTGTGTGCA TGGCCTTTCCAAAAAGGAGGT
GGAGCTGTRAGTTCTTTGGAAATGTGAACAATTCCTTTTGAAATATGGAGCCCAGATAAA
TGAACTTCAATTTGGCATACTGCCCTGAAGTACGAGAAGTTTTCGATATTTTCGCTACTTT
TTGAGGAAAGGTTGCTCATTTGGGACCATGGAAACCATAATATGAATTTGTAAATCATG
CAATTAAAGCACAAAGCAAAATATAAGGAGTGGTTGCCACATCTTCTGGTTGCTGGATT
TGACCCACTGATTCTACTGTGCAATTCCTTGGATTGACTCAGTCAGCATTGACACCCCTT
ATCTTCACTTTGGAGTTTACTAATTTGGAAGACACTTGCACCCAGCTGTTGAAAGGATGC
TCTCTGCTCGCTCAACGCTTGGATTCTACAGCAACATATGCCCCACTGTTCCCAT
CCCTGACCCCATCTTTGTCTGTTTGGAAATTCGGTCCAGTCTAAATCAGAACGCTCTACG
GTCTGACAGTTATATTAGTCAGCTGCCACTTCCCAGAAAGCCACATAATTAATTGCTC
TATGAAGACGTTCTGAGGATGTATGAAGTTCCAGAACTGGCAGCTATTCAGAATGGAT
AAATCAGTGAAACTACTTAACACAGCTAATTTTTTTTCTCTGAAAAAATCATCGAGACAA

FIG 40 (II)

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AAGAGCCACAGAGTACAAGTTTTTATGATTTTATAGTCAAAAGATGATTAATTGATTGT
CAGATAGGTTAGGTTTTGGGGGCCAGTAGTTCAGTCAGAAATGTTTATGTTTACAACT
AGCCTTCCCAGTAAAAAATAAAAAAAAAAAAAA

FIG 40 (III)

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S0CS-13

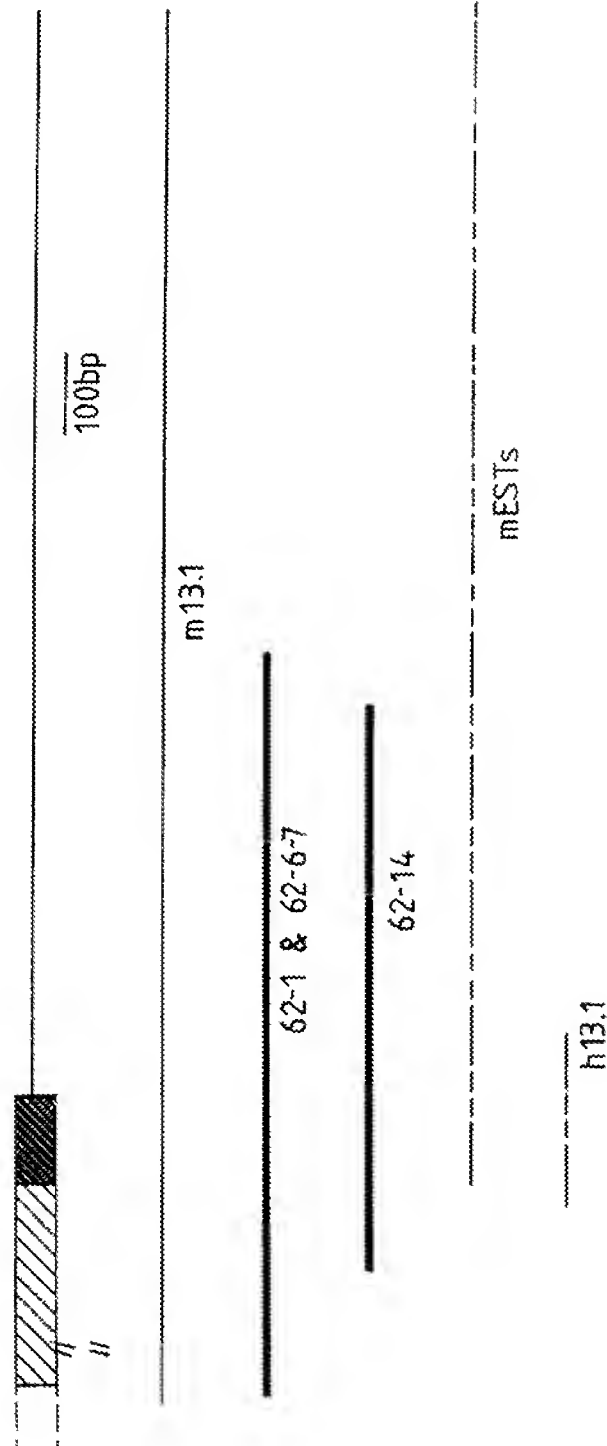


FIG 41

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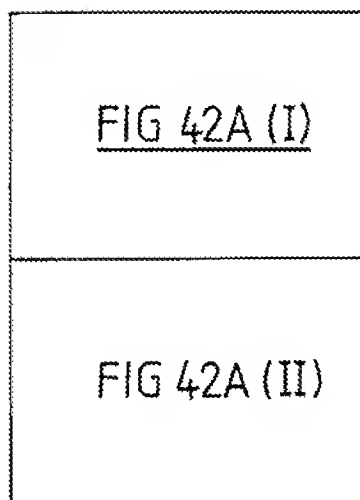


FIG 42A

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CGGGGGCTGGACCTGGGGCGTAACCGTCTCTACCAGCGCAAGAACCCAGCCAAG
TAAACATACCCAGCCTTCTGGAGCCGGACGAGACATTCATTGTCCCTGACTCCTTT
TTCCGTGGCCCTGGACATGRATGATGGGACCTTAAGTTTCATCGTGGATGGACAGTACA
TGGGAGTGGCTTTCGGGGACTCAAGGGTA AAAAGCTGTATCCTGTAGTGAGTGCCGT
CTGGGCCACTGTGAGATCCGCATGCGCTACTTGAAACGGACTTGATCCTGAGCCCCCTG
CCACTCATGGACCTGTGCCGGCGTTCCGGTGGCCTAGCGCTGGGAAAAGACGCCCTGG
GTGCCATCCCCGCTCTGCCGCTACCTGCTCCCTCAAGCCTACCTCCTTACCAGTG
Atccacatcccaggaccgccatacagacagccatctggtgcccaartcaactgagccccgtt
ggggtccgccgacccctggccctgggatggaygccccaccctcagccatgggcagacgtg
ccccctcatcctaccggctgcctctgtctgggggaacctatgccaaacggactctccct
tcccaaacactggctgaagcagcagcaccacggcccttccctgaaccagatgacagagaa
taaaactatgaaaaacctctctcaggcgcccttctgctctcagggtggagtgggctgcccc
cactctctgcagagagaggctacacccaccctgggggtcctgggaggtgaagactagta
ggagggtgccagggtgartccaaaaagcagggaatggccaggamcaggccatcacagatga
agctcaggatgtcacatataccatggacamtgagacagaaacccagggtggamttccctt
gggccaacgagtgccagctttaaattgtcagctgcmgggtgctctgttgccctgtatttatt
ctttaaacagtagcaaaaggccatttatttattccacttagaaaggaaaccttggtggg
tgggttccccctcgatgtgctttccccccacctccctgggaatgtgtgtgccacacctgtcc

FIG 42A(I)

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ttgtcccaggccaggactgtggcacatgagctgggtgtgcacagatacacggtatgtcgt
cgtgcatgacccctgactagtctcctaagtagccctgcaccaagcaccagagcagacccc
caagagagggcccggtgcaagtcccccatgtccccaggctccctgttctgttgccttggga
ctcatacaccggcacacgtgtttcagccctcttgacttccatgagcttcgaattttgcc
cccgattcttctgatatattcccatattggcatcctccaaagctctgggacctggaggggcat
taggacacatggaatgagtgggtctccagccctgggaaagccactggcacaaggcagg
attagaaagaccaagagcagggtggggcgccatgaagcctgtatgcctctcaggctca
agaccccgccacacacccactcaagcctcagaagtgggtgtgtagggcagcccccaggag
aggaatgcctgtcctaggcagcacgtacatggagcaccgccacatgtgctccagccctct
ggctgtttctcttgctctagaatcaactccctacattgggaatgtagccatttggttag
aggacttgcctaggcctgcagggaagctcacgttccatccccctgcaccaaggagaaatcaa
agctcaggaggctgaggcaggaggattggctgtcagtggtgtacagagggtcatggccat
cctgggctatatataaaccttgtcctttaagaaaaaagaaaaatcaacttccattga
atctgagttctgtctcatttctgtcacaggtaacaatagatgacttkatttgttgaaaaat
gkttaatatatatttaacmtatatatatatttgttaagaagcatt

FIG 42A(II)

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...GCWDLGRNRLYHDGKNQPSKTYPAFLEPDETFIVPDSFFVALDMXDGTLSFIVD
GOYMGVAFRGLKGKKLYPVVSAVWGHCEIRMYLNGLDPEPLPLMDLCRRSVRLALGK
ERLGATPALPLPASLKAYLLYQ*

FIG 42B

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AAGGGTAAAAAAGTGTATCCTGTAGTGAGTGCCGCTCTGGGGCCACTGTNAGATCCGAA
TGGCGCTACTTGAAACGGACTCGATCCCCGAGACNTGCCGCTCATGGATTGTGCCCCGTCCG
TCGGTGGCCCTGGCCCTGGGGAGGGAGCGCCCTGGGGGAGAACCAACNACCTGCCCCGTG
CCGGCTTCCCTCAAGGCCTACCTCCTCTACCAAGTGACGTTCCGCCATCATACCGCCAGC
GCGACAGCCACCTGGTGCCAACTCACTGAGCCGCCCTG

FIG 43

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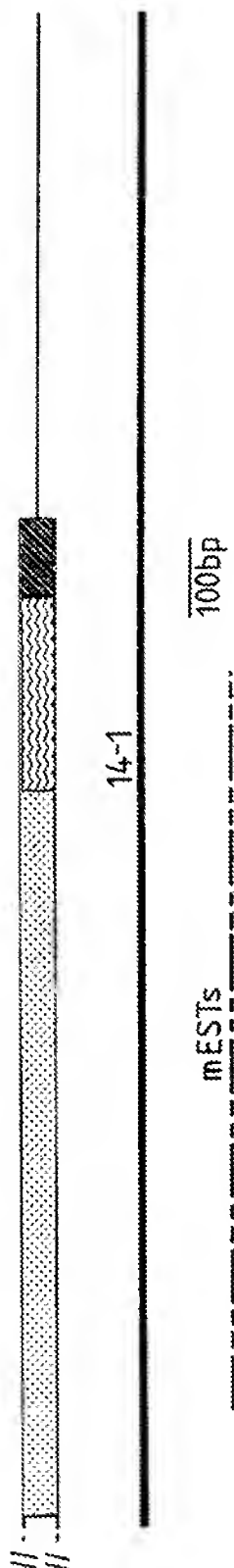


FIG 44

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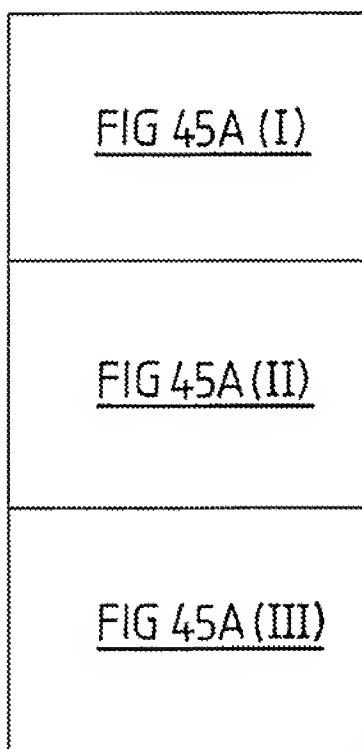


FIG 45A

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...AAGTGGCGCGGTCCCTGGAGAGCAGCGGAGGCAGCGCAAGTCTGACTCTGG
GCTGACCGTGAGCCGGGGGGGCTGACAGCCAGGCTCCGCTGGCGGGAGCCCC
ACGAGAGCGGAGTGGCCGGGCTCTCTTCCGCGCTTGAGCGAGCGCGGTGATGG
CGTGGTGATGGCGGAGCGGCTCGGACAGCTCCGCTTGAGCTGAGCTCGGAGAGATC
CGTCCAGAAAGTGCCAGAGAAACCTTCCTCTTAGAAAAGCTGAAAAACACARTATTT
ATAACACTGGAAATTGTAAAGAAATTTGTTTAAAAATGGCTGAAAACAATACTAAAAATG
TAGATGTACGGCCTAAAAACAAGTCGGAGTCGAAAGTGCTGACAGGAAGGATGGTTATGT
GTGGAGTGGAAGAGTTGCTTTGGTCCAAAAGAGTGAGAGTTGTTCTGAATCTGAA
GCCATAGGTACTGTTGAGAAATGTTGAAATTCCTCTAAGAAGCCAAAGAAAGGCAGCTTA
GCTGTTCTGTCATTGAGTTGGACTTAGATCATTCCTCTGGGCATAGATTTTGTAGGCCC
ATCCCTTAAACAGAAACTGCAAGATGCGGTGGGCAGTGT'TTCCCAA'TAAAAGAAATTGT
AGTGGCCGACACTCTCCAGGGCTTCCATCTAAAAGAAAGATTCATATCAGTGAAC'TCA
TGTTAGATAAGTGCCCTTTCCCACTCGCTCAGATTTAGCCCTTTAGGTGGCA'TTTTAT
TAAACGACACACTGTTCCCTATGAGTCCCAACTCAGATGAATGGGTGAGTGCAGACCTG
TCTGAGAGGAAACTGAGAGATGCTCAGCTGAAACGAAGAAACACAGAAAGATGACATAC
CCTGTTTCTCACA'TACCAATGGCCAGCCTTGTGTCTATAACTGCCAACAGTCTTCGTG
TACAGTGGTCACTAAC'TGGTTCTATGATGAAC'TTGGTCACAAAACAACAGCATAGAA
GACAGTCACTGGATTTCAGAGGATGAAAT'TATAACGCTGTGTCACAAGCTCCAGAAAAA

FIG 45A(I)

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GGAAATAAGCCCAGGTGGGAAATGGAAGAGGAGATCCTGCAGTTGGAGGCACCTCCTAA
GTTCCACACCCAGATCGACTACGTCCACTGCCCTTGTTCCAGACCTCCTTCAGATCAGT
AACAAATCCGTGCTACTGGGGTGTCATGACACAAATATGCAGCCGAAGCTCTGCTGGAAG
GAAAGCCAGAGGGCACCTTTTACTTCGAGATTCAGCGCAGGAAGATTATTATTCCTC
TGTTAGTTTTAGACGCTACAGTCGTCTCTTCATGCTAGAAATGAGCAGTGAATCAT
AACTTTAGCTTTGATGCCCAATGATCCTTGCTCTTCCATTCTCCTGATATTACTGGGC
TCCTGGAAACACTATAAGGACCCAGTGCCTGTATGTTCTTTGAGCCGCTCTTGTCAC
TCCCTTAATCCGACGTTCCCTTTTCCCTTGACGATATTTGCAGAACCGTTATTGT
AATTGTACGACTTACGATGGCATCGATGCCCTTCCCATTCCTTCGCCCTATGAAATTGT
ATCTGAAGGAATACCAATTATAAATCAAAAGTTAGGTTACTCAGGATTTGATGTGCCAGA
GCAGCAGTGATgaggagaggttagaatgtcgacctgcatacacataatcttcaatttaatat
tttatcttcttatgcctctcttgaaattttgtacaaaggcagttgaatcaaatataaac
tgtgccctaagttttaatccagatcaatttatcttcttatgatacacacttggtatat
atctttaaagcagggtgttggtttttaccatataaaatttacatatatgggtccaggg
atatttacaaatttcaaggcattgcataatacatttgaaatattctgtatcttcttaataa
tcttctgtcttctctatgtgtgaaatattttgctaatactatgctatcagtatctcttg
tatgaccggaatagttaccctattctcttcttctgaagatcttcagtaaaagagtgtt
gtaatcaatccattataatgtaattgacttttgttaatttgccaataggaggtgtaaac

FIG 45A (II)

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aacaaaatgatttaaaatgaaacttaatgtattttcatttttaaataatttaactaaacca
agtttgtttgttagttatttctagccaataagaaaaagagaatgttagcatcctagagggtg
tatttgttctgcagtttggcaggaccgtcagttagtccaataaacaatccccctcagcg
tggaggcgaatggaacctgtgtctccttcttacgggaagctttgcaaaagcaaaatagc
agggttacaagcttggagttgttaaggcaactagagttttctctatttaatttatagac
tgttgttgcaccctacttagctcttttttgggaactctagttcccaggggaaaaatacct
cgtgcc

FIG 45A(III)

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. . . . SGGFWRAGGSGKSDSGLTVEPGRGLTARPPFGGSRTRSGSGRASLPRLSERR
 VMAVMAAGARTAPLELSERSVQKVPRRNFLLEKLKNTXFITLEIVKNLFKMAENNS
 KNVDVRPKTSRSDRDKDGYVWSGKKLSWSKKSESCSESEAGTVENVEIPLRSQER
 QLSCTSIELDLHSCGHRFLGRSLKQKLQDAVGQCFFIKNCSGRHSPGLPSKRKIHS
 EMLDKCFFPRSDLAFRWHFIKRHTVPMSPNSDEWVSADLSEKRLRDAQLKRRNTED
 DIPCFSHNTNGQPCVITANSASCTGCHITGSMMLVTNNSIEDSDMDSEDEIITLCTSS
 RKRNKPRWEMEEEEILQLEAPPKFHTQIDYVHCLVPDLLQISNNPCYWGVMCKYAAEAL
 LEGKPEGTFLLRDSAQEDYLFVSFRRYSRSLHARIEQWNHNFSEDAHDPCVFHSPDI
 TGLLEHYKDPSCMFFEPFLLSTPLIRTFPFSLQHCRTVICNCTTYDGDALPIPSPM
 KLYLKEYHYKSKVRLLRIDVPEQQ*

FIG 45B

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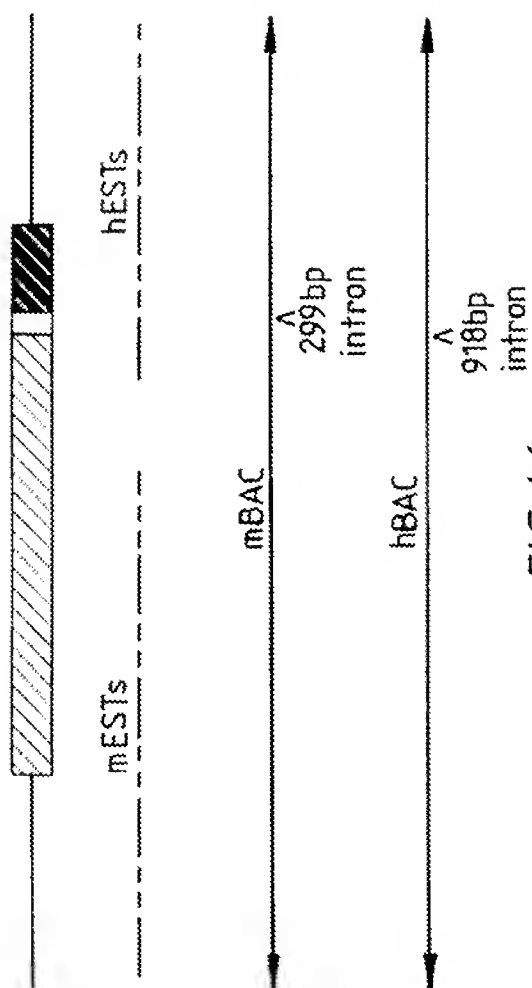


FIG 46

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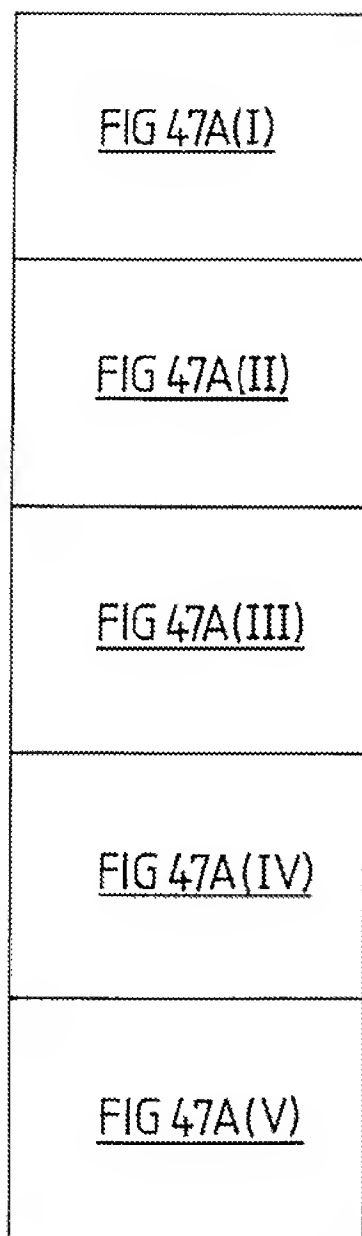


FIG 47A

FIG 47A(I)

[illegible]

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gactaggctagccttgaaactcagagatccgcctgcctctgcctcccaagtgcctgggat
tatagggttgcaaccactgcccagccactttgggatttttgaaactgttatcaaga
ggctttcgaggaggtcaaaactcaacagcaaccctctccatgataatgtagctaagtc
aaacgacactcaaaaacttaacccttaaaagcacacatccaccagacagcgtgcccactc
gtagttccattactcaggaggctgaagcaggaggatgaaggactaaggcttcagcaac
ctagggagccgcaggggacagtagtctcaatccctacattctcctgaaacacaggagca
ggagttcaggaaagggtgtcaaggccgcttactgatacttagggcctcaggaatgactag
ctcaggcagagagaaagggtctccagtggaagaagtctacacacacacacacaca
cacacacacacacacacagaatccaaaggcgatgacgtcatcaaaagggttaattc
tagtctgggatggggggagggtggggcacgcagctgtcaggtggctttggaaaaata
aactgctgaagagtctgacgccaggagtcctgggagggaacaagggttaccactca
aagagtgtgctccacaaagcatgcgcgcttgtccacgtctggagtcgtcacttattt
ttgcctggatctcttgtagccgggtgggttctcaaggcggtaaagtgggtggccgcgt
ggctctgggaggtgacgataagggttaatcgtccacagagcccaaggcgagcggggc
gggcgtccgcagcccgctggagccggaagcagtggtgggtcagggggtctctagcc
ttccctatctgtacttccacagagggtctctcgagctagggggacagtgaggtgcggg
gtagggggcccggttagagccagcaagggaagggttcacggtaagggtctgagggaga
gagagctcctgagaaacttggggggcgcgacacagatagggtgaaagcagagtgatag

FIG 47A(II)

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acctgggatggttaggggaccaaggaagaccaggctggttggcatacacccggtgaac
ggatgggagtcctagggaaagatgatggcctaacagtccttctgtctccacaccac
tccaggggacgatccggagctcaactttcaaaagcgagacgccccagcaagcctgtt
tgagaaagtcttcagcggctctcctcatgggccagacggccctggcaaggggcagcag
CAGCACCCCTACCTCGCAGGCTCTGTACTCGGACTTCTCTCCTCCCGAGGCTTGGAG
GAGCTCCTGTCTGCTCCCCCTCCTGACCTGGTTGCCCAACGGCACACCGGCTGGAACC
CCAAGGATTGCTCCGAGAAACATCGATGTCAAGGAAGGGGTCTGTGCTTTGACCGGCG
CCCTGTGGCCAGAGCACTGATGGAGTCCGGGGAAACGGGGCTATTTCGAGAGGTCTG
CACGCCCTGGGAGATCAGCTGGCCCCCTGGAGCAAGGGGCACACACGCCGTGTGGCG
TGGCCACCGCCCTCGCCCCGCTGCAGGCTGACCACCTATCGCGGCTTTTGGGCAGCAA
CAGCGAGTCCCTGGGCTGGGATATTGGCGGGGAAATTCGTATCATCAGAGTAAGGC
CTCGAGGCCCCCAGTATCCAGCTGGACCTCAGGGTCAGCAGCTAGTGGTCCCAGAGA
GACTGCTGGTGGTTCCTGGACATGGAGGAGGGACTCTTGGCTACTCTATTTGGGGCAC
GTACCTGGGACCAGCCTTCCTGGACTGAAGGGGAGGACCTCTATCCCTCTGTAACT
GCTGTTTGGGGCCAGTGCCAGGTCCGCATCCGCTACATGGGGCGAAAGAGgtgaga
tacggactagggtgtggggagatcactactcttggcaatggtttgggctggaaactcat
ggttggagcacaggaagtaggcttcttgtcactttggcctgtcacttagatggccttg
gatctagcttcactcccaatccctattggatgtgatgcacaaattcagagcctttggg

FIG 47A(III)

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tctccctcagctgaggtggcggtggaaatggaggaagaagggtgcctgagcagg
 atctcaagttcaaggatgccctggagttgcttacttaccttgcttcttctctctccg
 cagTGGAGGAACCAATCCCTTCTGCACCTGAGCCGCCCTGTGTGTGCCCATGCTCT
 GGGGACACCCGGCTGGGTCAAATATCCACTCTGCCCTTTGCCCTGCCATGAAGCCC
 TATCTGCTCTACAAATGAcccagtagtacagggtgtgctggcaccctaccgtggggac
 aggtggagaggcacccgctggcctagacaaactttaaaaagctggtgaagctggggggg
 gggggctggaccccttcacctcccttctcacaggagcaagacatatagaaatgatata
 taaacaccatggcagcctgggacaaaagaggtttttgaaagtaaaaaatgagatgtattg
 tcacaaacctgtttcattattgtttttgttttttacctccccaccagggtcta
 gagcccatcactgtcttaagggaattatgacaaacccacaaagctcagggccagggtgtt
 tatttcccttacatgtaggatgggttcacaaacacaaatcacaggggttttggcacccgtgg
 gggaggggactatcccaggccctcttaggggtctcatgtataccggaattcagacccgaaa
 gctctggaatttctgcatacagacatccagtagaacttgggagtgaagctagagccaagg
 ccattctaagtgacaggcccaaaagtgacacgaagcccacttccctgtgtctccaaccatgag
 ttbccagcccaaaccaatggaagggtgatttccacttgtcagggcccaaaaggacagtca
 gttctactccctccctcactagggagccaccttgggtgacagttgattctaccacctgt
 aagtggtaaaagggttggcctgggtcccaaccataataggggcggtggaaacggctcagg
 agggtacagcgtggattaggcccaagaatgggcagatgatgtcatcagaagcatgtg

FIG 47A(IV)

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accggtgggagcagttactaaacttctgggcaacctagtcacatgctatgcaggcaggt
agagggatgggcagtgctcatgttggcattgatgatgtccacaaattcaggcttga
gagatgcgccaccacaaaggaagccgtccacgtcaggctggcttggccagctcttttgca
ggttgctccagtcacagaacctgtaccaggaacaagaagacagtttggtcaggctctat
gatcagaacacttaagccccacctctctgtgcaaggcagcctcagttctttagccc
atttccgtcttagctagagccaaagccactcactccataaatgatccgggtgctctg
agccaccccatcattgacattggatttcagccatccccggagcttctctgtgtaattcc
tgtcctagaaggaggagagagctactaaagtaagctccttccctatctatcttcaa
ggagtaaaaaccactgggtctcacatagagttgagttccagaaaagccccggacca
gagagtggcaaggctccaatcccaccaggcttggaatgaacatttttggcaaaagtcac
tctccttggtgagtttgggggcccctctgtctctaaaggggcttggatgggctccatag
ctgtgtgagtcctgttaaagccggacaggctgaggagctctgggtagttacctgctgag
gggttgccgtcttggccagtcaccaatggccccacacagggttcataggccaggaccacctt
gctccagtccttcacattatctgtgtgggcagagaggagagtgagtaggaaggagctga
ccccccaagc

FIG 47A(V)

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MGQTALARGSSSTPTSQALYSDFSPPEGLELELSAPPPDLVAQRHHGWNPKDCSENID
VKEGGLCFERRRPVAQSTDGVRGKRGYSRGLHAWELISWPLEQRCGTHAVVGVATAPLQ
ADHYAALLGSNSESWGWDIGRGKLYHQSKGLEAPQYPAGPQGEQLVPPERLLVVLDME
EGTLGYSIGGTYLGPFRGLKGRITLYPSVSAVMGQCQVRIRYMGERRVEEPQSLHLHS
RLCVRHALGDTRLGOISTLPLPPAMKRYLLYK

FIG 47B

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FIG 48A (I)FIG 48A (II)FIG 48A (III)FIG 48A (IV)FIG 48A (V)FIG 48A (VI)FIG 48A

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gtactttctttatatctccataaattttatttactattactacatgatacattatttta
taaaagtctttgtaacctccttaaggattcactgcttaattctccagtgcttagcacia
atcattaaatgcgaaccagaaactcttccaaatgtgtacatctataacctcattgga
ttctcactaccaaccccatggcaatagataactaatgtgatctctgtcttacagaggaaag
aaacaggcacaggagggttcagtaatttgccccagggtcacacacactggcccttcag
gtattcatgcccggggaggtctgggtcccacagctggcatgtttggccattatatatt
gcctccttatagtgtcggcactcatttaaggcacattgacagctatgcttggtgagtgac
tactatgtaccagctctgtgtctacatgctttacctggattatttcaactgcaaca
accctgtgaggtaactaccatcattgctcctattttacataacagaaaaactacagaaa
tctggggctgggcgtagtggtcctgaaatcccagcactttgggagaccctgtc
tctaaaaaaatttttttgccggagctgggtggctcacacctgtaatctcagcact
ttgggagggttaaggcaggcagatcacaaagggtcaggagttctagaccagcctggccaa
atggcaaaacccctgtgtctactaaaaatacaaaaaatagctaggcgtggtggcagggtg
cctgtaatcccagctactcaggagggtgaggcaggagaatcccctgaacctgggagat
ggagggttacagagagccgagatcgtgccgctgcactccagcctgggcaacaagagcaa
gactctgtctcgaaaaaaataaaaaataaaaaataatttttttaaaaaattagctg
ggtgtggtagcacatgcctgttagtcccagctacttgggagggtgaggtaggaggatca
cttgagcccaggagggtcaaggctgcagtggtggctgtgatggcgccactgcactctagcc

FIG 48A(I)

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ttggtgacagaccctgtctcaaaaaaaaaaagagaaatcgggcaacttccc
caagatcgcgagttaaactagtggcatagcttcaactcaaaactcgaagtcttaatcagg
aactctaccaaatgagatcaacggctcagtaattggattggcatccagtatgaagact
ggaccaggggagaactatgatggtacagcctagagcctgaagcagatttcacagc
ctcagaggtggcacaggctgactcacaaacccggggcagaaaaggaccagcccagaaac
agtgaaccagaatcacaggggaagtagaattgggattcggcacaaatgaagccccctcctt
gaccccatgctccttaccctcaggggcgaggagttagtcgctcaggcggctcaaaagg
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gttaattctgagatggccctgcccgggtgcggactctgccgcagcaagagaaagggtta
actgccccggccttcgcgctgggggcgggcccctcggggagggtcacagcccgggact
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ggaggggcggggccgggacgggctcggcccacaaaggaggagctgggggcggaagcgg
ccggcgggtctgcgccctgcggcctcgggttcttccgcccggtccttcagaggccc
ggcgacctccagggtgggaagtcaaccagggttcggggggcagcggcgagggtccgg
gcgagtaagggggatggtccatgctgaggccccaaatggggcgaaactcgcgagagtctc
tggcgacctggatcagatggggcgagggcagatgaaggggccccaggagctttgggggcag

FIG 48A(II)

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cgaggaggagcgggcccggttggaacttggtgaaaggatgggtacctgggt
gacgagccccgcaggattctgctcttcaagccccctttctccagctcccttccag
gtcaatccaaactggagctcaactttcagaagagaaagacccccagcaagcctctt
cgggagtcctctagctcctcaactccATGGCCAGACAGCTCTGGCAGGGGCAGCA
GCAGCACCCACGCCACAGGCCCTGTACCTGACCTCTCTCTCCGAGGGCTTGG
AGAGCTGCTGTCTGCACCCCTCCTGACCTGGGGGCCAGCGGCCACGGTTGGAAC
CCCAAGACTGTTAGAGAACATCGAGGTCAAGGAAGGAGGTTGTACTTTGAGCGGC
GGCCCGTGGCCAGAGCACTGATGGGGCCCGGGGTAAAGAGGGGCTATTCAAGGGCCCT
GCACGCTGGGAGATCAGCTGGCCCTAGAGCAGAGGGCACCGCATGCCGTGGTGGC
GTGGCCACGGCCCTCGCCCTGCAGACTGACCACTACCGCGGCTGCTGGGCAGCA
ACAGCGAGTCGTGGGCTGGACATCGGGCGGGGAAGCTGTACCATCAGAGCAAGGG
GCCCGGAGCCCCAGTATCCAGCGGGAACTCAGGGTGAGCAGCTGGAGGTGCCAGAG
AGACTGCTGGTGTCTGGACATGGAGGGAACCTCTGGGCTACGCTATTGGGGGCA
CCTACCTGGGGCCAGCATTCGCGGACTGAAGGGCAGGACCCCTCTATCCGGCAGTAAG
CGCTGTCTGGGCCAGTGCCAGGTCCGCTACCTGGGCCGAAAGGAGAGgtgag
gcctggggcagacgtggggagaaacttctgtccctgggtggcagtggtttgggatggaa
actctcttgacaagagcaggggagtggaccttcatccagcctgcctcaacctctgtt
cagtgtgggaaaggctaggggtcttccacagctgttatttaatttaacccaacagcaa

FIG 48A(III)

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ttagaggtgaaacagggttgagaaagcaactttctcaagttctcttggccagtaaatgg
tgaaccttcagaatggaggagggaactgcagggatgagagaatttcaggagatatcaac
ccctgagcaagaggtgcaaagcgttaggtactgggtttgatgtacaggtccaaaagaa
ggatgggcagagccagggtacccaggctgtataccggattccctgggctctaacctgtc
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cctgggcaccaggagagagcagtgaggaggcaggcccttagggtggggcagcagg
ggaggagcctccccaggaaactgactgggtccagggttggagctgctctctgcagttg
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gagggccttagccagctcttcacccccagctctgactagggtgtgtgaaatctttatc
tgggaggcagaacttcgggtatctcaaatcccttccagccaggtgggcacactcg
aagcaggaaagcagaaaggcatctgagtaggacccccgtagtttgaggacatctggcctg
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ggaggcactgctggcctagaccagctgctgaaagctggtgaggtgagccccctacccc
aacccaagctctgcggaaatcaacagccccagagccacttgaggggagggaagaaagg

FIG 48A(IV)

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agccggcggttcaaggctatgacagttctgctacgcaaaacatttttccaagtaaaaata
gtaagagatgttgttatagaaacctgttcttgttttttttttttttgcacaaaatga
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cacagggcacgggcaccatgggagagggcagcactcctgccttctgaggggatcttg
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aaggagcagatgacaccatcagaagcatatgcagggaaggcagttactgggcttct
gggctgcttagtccctggcttggcagggaagggtagggaagatggatggggctcattgt
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catccacatcaggctggctggccagctccttgcagggttgcctcagtcacagagcctgg
gaagggagcagaacaagggttgggtcaagaattgggatgggtctgccccatccccacct
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ccactcaccctccataaatgatacgggtgctctgagccaccgcctcagagacgttggac
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aagtaagacctttctgacctctctaaagaggaaaaaatcactggcaccagtggaacctta

FIG 48A(V)

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gtgtgggtttctgactgagtcagagtcaccagggtcttgatccaagccaggccctggact
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ggggttgccccatgtgggctgtgtctgtccaaacctattgaggcaggctgggatgagg
gcagggtcctggggcccggttacctgttgggggtgttgcagtccttggcagtaaccaatgg
ccacacaggctcataggccaggacgaccttggctccagtccttcacgttatctgcagg
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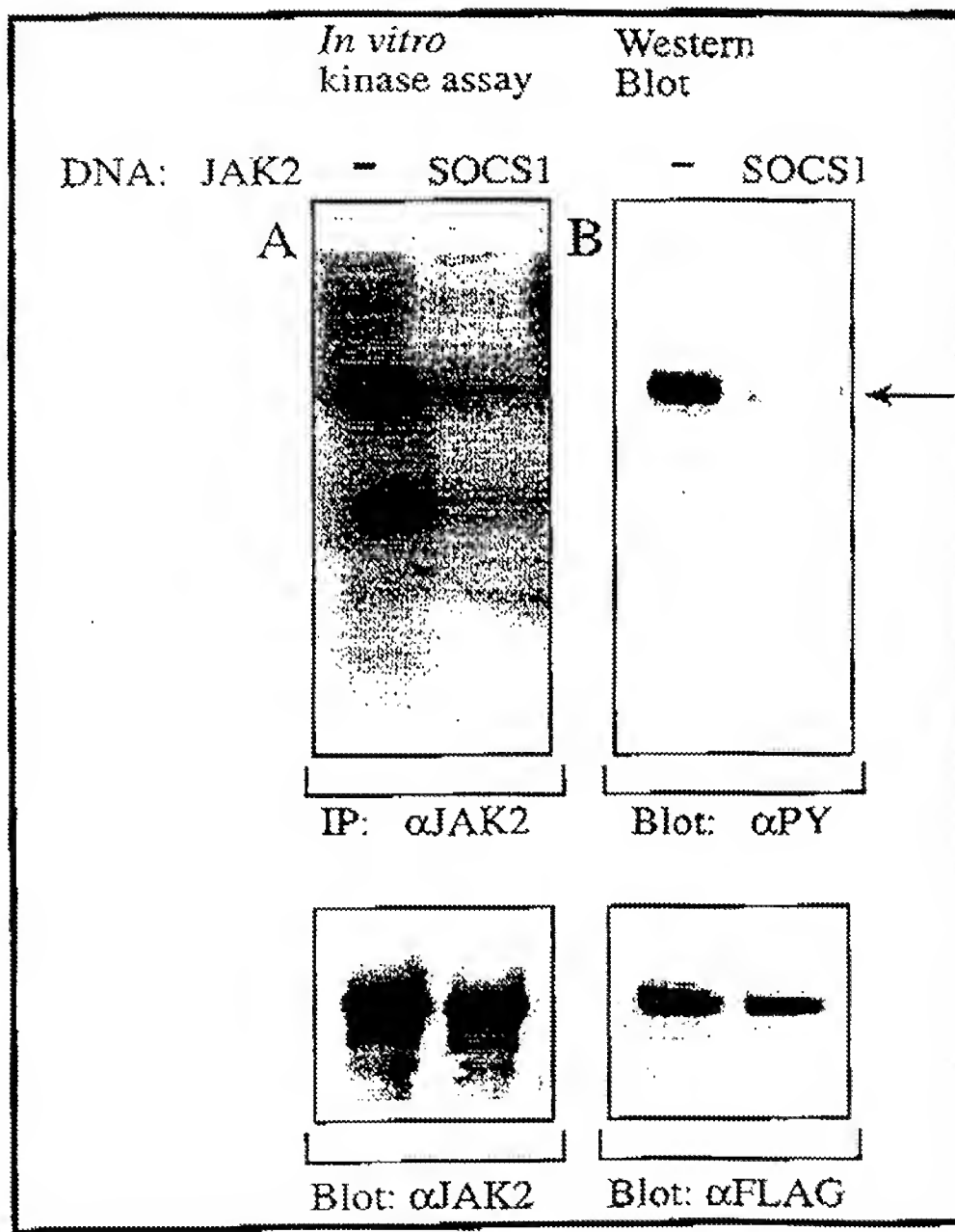
FIG 48A(VI)

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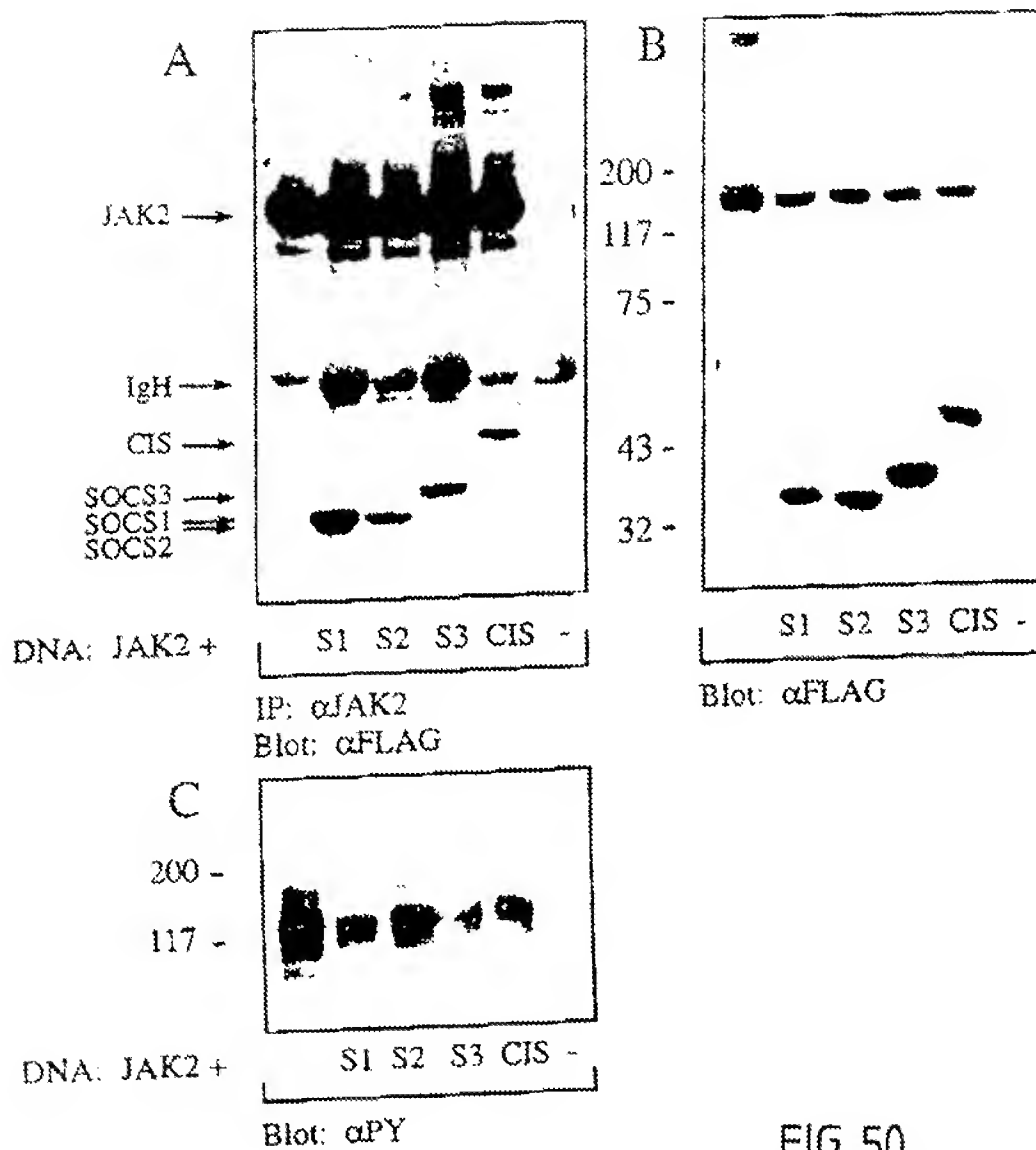
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TDHYAALLGSNSESWGWDIGRGKLYHQSKGPCAPQYPAGTQGEQLEVPERLLVVLDME
EGTLGYAIGGTYLGPFRGLKGRTLYPAVSAVWGQCQVRIRYLGERRAEPHSLHLISR
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FIG 48B

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FIG 49

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FIG 50

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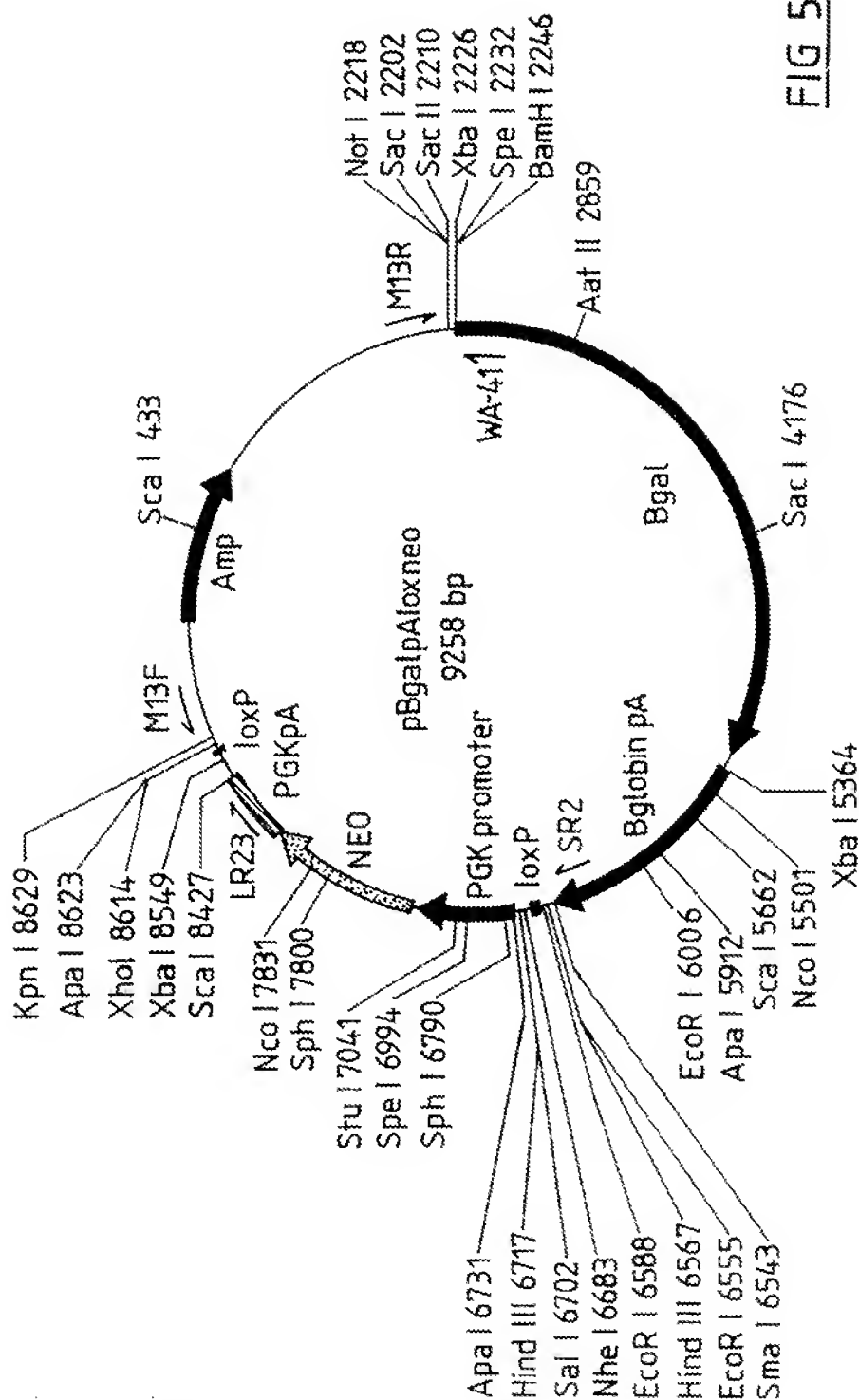


FIG 51

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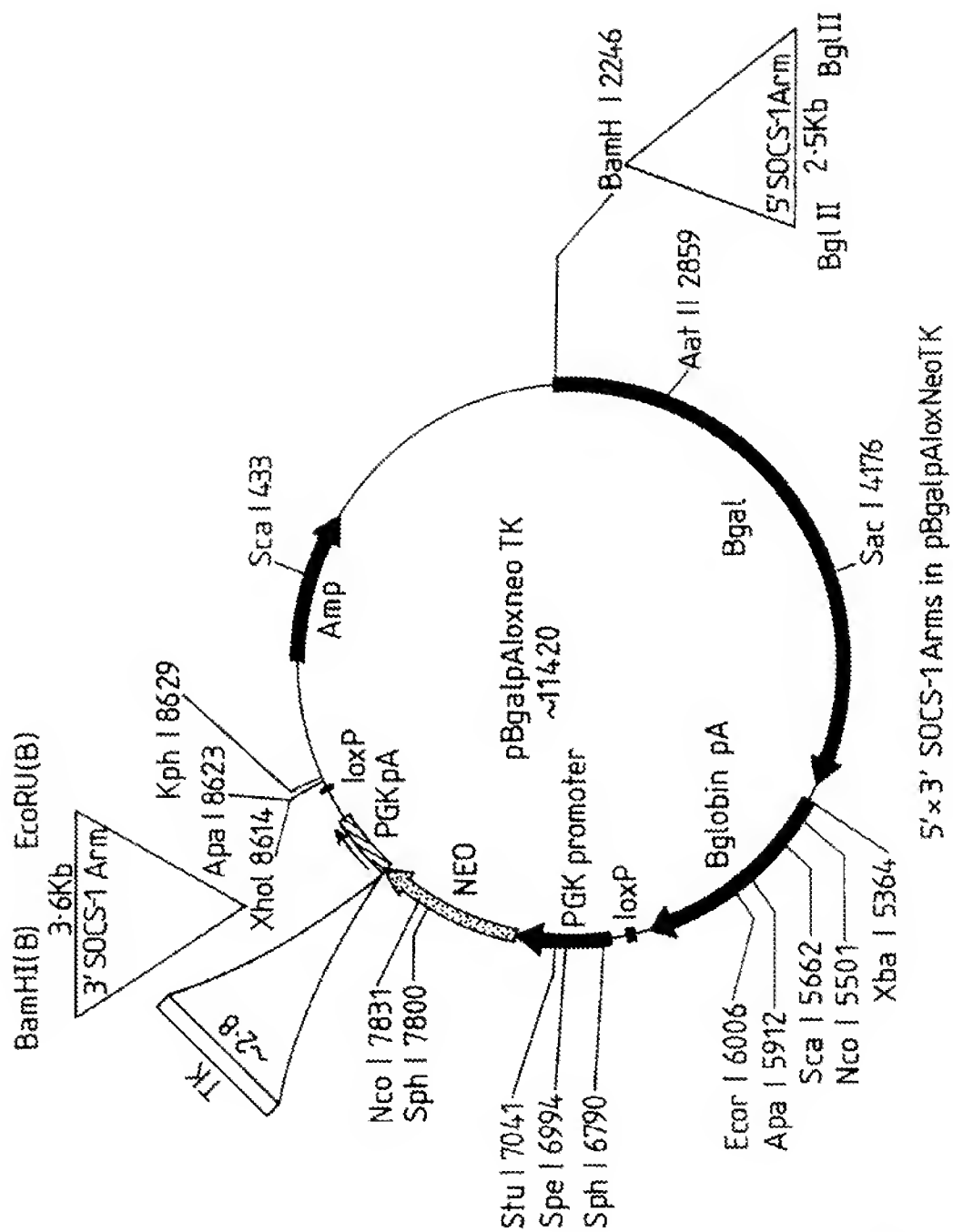


FIG 52

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/AU 97/00729

A. CLASSIFICATION OF SUBJECT MATTER		
Int Cl ⁷ : C07K 2/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN Peptide sub sequence search STN [LIVMAP]. [PTS]. [LIVMAP]. [LIVMAF YW] [CTS] [RKH]. [LIVMAP] {3} [LIVMAPGC TS]. {1, ³⁰ } [LIVMAP]. [LIVMAP] P [LIVMAPG] [PN]. {1, ³⁰ } [LIVMAP]. [YF] [LIVMAP]		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 96/39427 (Trustees of Dartmouth College) 12 December 1996 The whole document	1-40
X	Yeast vol 12 No 15 issued 1996 Delaveau, Th et al. "Analysis of a 23 kb region on the left arm of yeast chromosome IV" pages 1587-1592	1-40
X	Science vol 270 No 5234 issued 1995 Iabetti, Set al "Titins: giant proteins in charge of muscle ultrastructure and elasticity" pages 293-6	1-40
<input type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search 20 November 1997		Date of mailing of the international search report 12 DEC 1997
Name and mailing address of the ISA/AU AUSTRALIAN INDUSTRIAL PROPERTY ORGANISATION PO BOX 200 WODEN ACT 2606 AUSTRALIA Facsimile No.: (02) 6285 3929		Authorized officer K.F. PECK Telephone No.: (02) 6283 2263

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/AU 97/00729

C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<u>The EMBO Journal</u> Vol 14 No 12 issued 1995 Yoshimura, A et al "A novel cytokine - inducible gene CIS encodes and SH2 - containing protein that binds to tyrosine - phosphorylated interleukin 3 and erythropoietin receptors" pages 2816-26	1-40
X	AU, A, 27924/95 (Flügge, U.) 17 August 1995 The whole document, particularly pages 29-32	1-40
X	<u>Biochemistry</u> vol 34 No 8 issued 1995 Weber, A et al "The 2-oxoglutarate/malate translocator of chloroplast envelope membranes: molecular cloning of a transporter containing a 12-helix motif and expression of the functional protein in yeast cells." pages 2621-7	1-40
X	<u>Journal of Bacteriology</u> Vol 176 No 24 issued 1994 Iwai, A et al "Molecular cloning and expression of an isomaltose-dextranase gene from <i>Arthrobacter globiformis</i> T6" pages 7730-4.	1-40
X	<u>Nucleic Acids Research</u> Vol 122 No 11 issued 1994 Althoff, S et al "Molecular evolution of SRP cycle components: functional implications" pages 1933-47	1-40
X	<u>Nature</u> vol 368 No 6466 issued 1994 Wilson, R et al "2.2 Mb of contiguous nucleotide sequence from chromosome III of <i>C. elegans</i> " pages 32-8.	1-40
X	<u>The EMBO Journal</u> Vol 11 No 5 issued 1992 Labeit, S et al "Towards a molecular understanding of Titin" pages 1711-16	1-40
X	<u>Advances in Biophysics</u> Vol 33 (Muscle Elastic Proteins) issued 1996 Kolmerer, B et al "A systematic search of the data bases for sequences homologous to titin/connectin" pages 3-11	1-40
X	<u>Microbiology</u> Vol 142 no 8 issued 1996 Yoneyama, H "Protein C (OprC) of the outer membrane of <i>Pseudomonas aeruginosa</i> is a copper-regulated channel protein" pages 2137-2144.	1-40
X	<u>Journal of Bacteriology</u> Vol 178 No 15 issued 1996 Limberger, R et al. "Organisation, transcription and expression of the 5' region of the fla operon of <i>Treponema phagedenis</i> and <i>Treponema pallidum</i> " pages 4628-4634.	1-40
X	<u>The Journal of cell biology</u> Vol 133 No 6 issued 1996 Goodson, H. V et al "Synthetic lethality screen identifies a novel yeast myosin I gene (MYO5): myosin I protein are required for polarisation of the actin cytoskeleton" pages 1277-1291	1-40
X	<u>Genes and Development</u> Vol 9 No 24 issued 1995 Herrscher, R F et al "The immunoglobulin heavy-chain matrix-associating regions are bound by Bright: a B cell-specific trans-activator that describes a new DNA-binding protein family" pages 3067-82	1-40

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.
PCT/AU 97/00729

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
AU, A	27924/95	CA	2192849	DE	4420782	EP	765393
		HY	9603441	WO	95/34654		
END OF ANNEX							